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PROSPECTUS PU-CET (P.G.) – 2023

Dates of Test: 10th June 2023 (Saturday) & 11th June 2023 (Sunday)

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subject

PANJAB UNIVERSITY ANTHEM

तमसो मा ज्योतिर्गमय: तमसो मा ज्योतिर्गमयः तमसो मा ज्योतिर्गमयः तमसो मा ज्योतिर्गमयः पंजाब विश्वविद्यालय तेरी शान-ओ-शौकत सदा रहे मन में तेरा आदर मान और मोहब्बत सदा रहे पंजाब विश्वविद्यालय तेरी शान-ओ-शौकत सदा रहे तु है अपना भविष्य विधाता पंख बिना परवाज सिखाता जीवन पुस्तक रोज पढा कर सही गलत की समझ बढाता जीवन पुस्तक रोज़ पढ़ा कर सही गलत की समझ बढ़ाता तेरी जय का शंख बजायें रौशन तारे बन जायें वस्वरी तेरी गोहरत तेरी शोहरत सदा सदा रहे पंजाब विश्वविद्यालय तेरी शान-ओ-शौकत सटा रहे पंजाब विश्वविद्यालय तेरी शान-ओ-शौकत सटा रहे तमसो मा ज्योतिर्गमयः तमसो मा ज्योतिर्गमयः

Tamso ma jyotirgamaya Tamso ma jyotirgamaya Tamso ma jyotirgamaya Tamso ma jyotirgamaya Panjab vishaw vidyalaya Teri shaan-o-shauqat sada rahe Mann mein tera aadar maan Aur mohabbat sada rahe Panjab vishaw vidyalaya Teri shaan-o-shauqat sada rahe Tu hai apna bhavishya vidhata Pankh bina parwaaz sikhata Jeevan pustak roz padha kar Sahi galat ki samajh badhata Jeevan pustak roz padha kar Sahi galat ki samajh badhata Teri jai ka shankh bajayein Roshan tare ban jaayein Vakhari teri shohrat Teri shohrat sada sada rahe Panjab vishaw vidyalaya Teri shaan-o-shauqat sada rahe Panjab vishaw vidyalaya Teri shaan-o-shauqat sada rahe Tamso ma jyotirgamaya Tamso ma jyotirgamaya

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PANJAB UNIVERSITY, CHANDIGARH **Number of Seats in Various Courses**

| Sr. No. | Courses | Name of the Department/Institution offering the Course | No. of Seats | Seats for NRI / Foreign Nationals Candidates |
|------------|--|---|---|---|
| 1. | LL.M. (One-Year Course) (Semester System) | Department of Laws, P.U., Chandigarh. | 42 | 4NRI + 2 Foreign Nationa |
| | LL.M. (One-Year Course) (Semester System) (Self Financing Course) | University Institute of Legal Studies | 50 | 4 NRI + 2 Foreign Nationa |
| | LL.M. (2-Year Course) (Semester System)(Self Financing Course) | (UILS), P.U., Chandigarh | a) 25 (for Advocates/Judicial/Officer/Civil Servants discharging Judicial Duties) ^e b) 25 (for Fresh Law | Foreign Nationa 2 NRI+ 1 |
| | LL.M. (One -Year Course)** (Semester System) (Self financing course) | UIL, Panjab University Regional Centre, Ludhiana. | Graduates) 26 + 10 Other Additional Seats | Foreign Nationa 2NRI + 1 Foreign Nationa |
| | LL.M. (One-Year Course) (Semester System) (Self financing course) | PUSSGRC, Hoshiarpur | 20 | 2 NRI |
| 2. | M.C.A. (2-Year) Course (Semester System) | Department of Computer Science and Applications, P.U., Chandigarh. | 34+2 ^b | 5NRI + 2 Foreign Nationals |
| | | P.U., Regional Centre, Muktsar | 20+2 ^b | 3NRI +1 Foreign Nationa |
| | | Panjab University Swami Sarvanand Giri, Regional Centre, Hoshiarpur | 50+3° | 5 NRI + 3 Foreign National |
| | | (Evening)(Self-Financing) Department of Computer Science and Applications, P.U., Chandigarh. | 46 +2 ^b | 6NRI + 2 Foreign Nationals |
| 3. | M.A. Journalism and Mass Communication (2-Year) Course | School of Communication Studies P.U., Chandigarh. | 30 | 5NRI + 2 Foreign Nationa |
| 4. | Master in Public Health | Centre for Public Health (University Institute for Emerging Areas in Science & Technology) PU, Chandigarh. | 17+5 ^d | 2 NRI + 1 Foreign National |
| 5. | M.A. (English) | Department of English, P.U. Chandigarh. | 95+5 ^f | 15 NRI + 5 Foreign National |
| 6. | M.A. (Geography) | | 51 | 7NRI + 3 Foreign National |
| 7. | Master in Disaster Management | Department of Geography, P.U., Chandigarh. | 25+3 ^g | 3 NRI + 1 Foreign National |
| 8. | Master in Geo-informatics | - S. S. Siguin | 25+3 ^g | 3 NRI + 1 Foreign National |
| 9. | M.A. (History) | Department of History, P.U., Chandigarh. | 50 | 5 NRI + 3 Foreign National |
| | | BAM Khalsa College, Garhshankar, Distt. Hoshiarpur. | 60 | - |
| 10 | M.A. (Economics) | Department of Economics, P.U., Chandigarh | 80 | 5 NRI + 4 Foreign National |
| 11 | Master of Social Work | Centre for Social Work, UIEASS | 33 | 4 NRI + 2 Foreign Nationa |

NOTE: * Eligible NRI/ Foreign Nationals candidates, please consult the guidelines available at Page No. 30-32of the Prospectus.

^{**} Subject to the approval of the Competent Authority.

^b For candidates who have studied computer science as one of the subjects for three Years or the subject as a full course at the under graduate level.

^c Economically weaker section

^d Only regular employees in Government organization and having atleast one Year service experience be admitted under, "In-service" category. The candidate has to produce "No Objection Certificate" at the time of admission.

^e For preparing merit list of admission, a special weightage of maximum upto 10 marks shall be given to candidates falling under this category i.e. ½ mark for every completed Year of practice/employment.

^f For students who have passed B.A. with Functional English.

g Sponsored by Govt. / Institutions

| 12 | ME Electrical Engg. (Instrumentation & Control) (Regular program me) | | 18 | - |
|----|--|--|-----------------|-------------------------------|
| 13 | M.E. (Electronics& Communication Engineering) (Regular Programme) | | 17 | - |
| 14 | ME Computer Science & Engg. (Regular Programme) | | 18 | - |
| 15 | ME Civil Engineering (Construction Technology & Management) (Regular Programme) | NITTTR, Sector 26, Chandigarh. | 25 | - |
| 16 | ME Mechanical Engineering (Manufacturing Technology) (Regular Programme) | | 18 | - |
| 17 | M.Com (Business Economics) | DAV College, Sector-10, Chandigarh. | 40 | - |
| | , | Guru Nanak Girls College, Model Town, Ludhiana. | 40 | - |
| 18 | M.Com. (Master of | GGDSD College, Sector – 32, Chandigarh. | 40 | - |
| | Entrepreneurship and Family Business) | Kamla Lothia S.D. College, Ludhiana. | 40 | - |
| 19 | M. Com. (Hons.) | University Business School, P.U., | 27 | 3 NRI + 1 |
| 13 | (Under Hons. School System at UBS w.e.f. 2019-2021) | Chandigarh. | 21 | Foreign National |
| 20 | M.Com (Business Innovation) | S.C.D. Government College, Ludhiana. | 40 | - |
| | | Govt. College for Girls, Ludhiana | 40 | - |
| 21 | Master of Business Administration for Executives (Under Hons. School System at | University Business School, P.U., Chandigarh. (Meant only for working professionals. | 30 | 3 NRI + 2 Foreign National |
| | UBS w.e.f. 2019-2021) | Classes to be held in the evening). | | |
| 22 | Master of Physical Education | Department of Physical Education, P.U., | 28 | 2 NRI + 1 Foreign National |
| 23 | Bachelor of Physical Education | Chandigarh. | 34 | 2 NRI + 2 Foreign National |
| | М. S | Sc. Under the framework of Honours School | ol System | |
| 24 | Biochemistry | Department of Biochemistry, P.U., Chandigarh. | 30 ¹ | 4NRI + 2 Foreign National |
| 25 | Biophysics | Department of Biophysics, P.U., Chandigarh. | 25' | 4 NRI+1 Foreign National |
| 26 | Computer Science | Department of Computer Science & Applications P.U., Chandigarh. | 20* | 2 NRI+ 1 Foreign National |
| 27 | Mathematics | Department of Mathematics P.U., Chandigarh. | 30 | 5 NRI+ 2 Foreign National |
| 28 | Physics (Specialisation in Electronics ⁱ) (Self Financing Course) | Department of Physics, P.U., Chandigarh. | 20 | 3 NRI+ 1 Foreign National |
| 29 | Geology | Department of Geology, P.U., Chandigarh | 5 | 4 NRI+2 Foreign National |

^hPreference will be given to GATE qualified candidates. Candidate appearing for PU-CET(PG) will be given admission if some seats will be left vacant after GATE QUALIFIED CANDIDATES ADMISSIONS.

* Subject to the approval of the Syndicate

| | | M. Sc. (Two-Year Course) | | |
|----|-----------------------------------|---|--|------------------------------|
| 30 | Bioinformatics | GGDSD College Sector 32, Chandigarh. | 40 | - |
| 31 | Chemistry | MCM DAV College, Sector 36, Chandigarh | 40 | - |
| | | Sri Guru Gobind Singh College, Sector 26, Chandigarh | 40 | - |
| 32 | Environment Science | Department of Environment Studies, P.U., Chandigarh. | 20 | 3 NRI+ 1 Foreign National |
| 33 | Human Genomics | National Centre for Human Genomes Studies & Research, P.U., Chandigarh. | 15 | 2 NRI+1 Foreign National |
| 34 | Instrumentation | UCIM, P.U., Chandigarh | 10 | 2 NRI+1 Foreign National |
| 35 | Nuclear Medicine | Centre for Nuclear Medicine, P.U., Chandigarh. | 10 | 2 NRI |
| 36 | Stem Cell Tissue Engineering | Centre for Stem Cell Tissue Engineering and Biomedical Excellence, P.U., Chandigarh | 15 | 2 NRI |
| 37 | System Biology and Bioinformatics | Centre for System Biology and Bioinformatics P.U., Chandigarh. | 13 | 2 NRI+1 Foreign National |
| 38 | Microbial Biotechnology | Deptt. for Microbial Biotechnology, P.U., Chandigarh. | 25 | 2 NRI+ 1 Foreign National |
| | | Sri Guru Gobind Singh College, Sector 26, Chandigarh. | 40 | - |
| 39 | Mathematics | BAM Khalsa College, Garhshankar, Distt. Hoshiarpur. | 60 | - |
| | | Sri Guru Gobind Singh College, Sector 26, Chandigarh | 40 | - |
| 40 | Medical Physics ¹ | Centre for Medical Physics, P.U., Chandigarh. | 10 | 2 NRI |
| 41 | Forensic Science & Criminology | Institute of Forensic Science & Criminology, P.U., Chandigarh. | 19 + 1 (In-service candidate from govt. organizations / autonomous institute | 2 NRI+ 1 Foreign National |
| 42 | Physics | Sri Guru Gobind Singh College, Sector 26, Chandigarh | 40 | - |
| 43 | Statistics | Department of Statistics, P.U., Chandigarh | 34 | 5 NRI+ 2 Foreign National |

| | M. Sc. (under the framework of Honours School System) / M.Sc. (2 Year Course) | | | | |
|----|--|--|----------|------------------------------|--|
| 44 | Biotechnology ^k | Department of Biotechnology, P.U., Chandigarh, offers Hons. School course | 5+2 (SC) | 2 NRI | |
| | | DAV College, Sector 10, Chandigarh. | 40 | | |
| | | GGDSD College, Sector 32, Chandigarh. | 40 | | |
| | | SGGS College, Sector-26, Chandigarh. | 40 | | |
| | | DAV College, Abohar. | 40 | | |
| | | Guru Nanak Girls College, Model Town, Ludhiana. | 40 | | |
| 45 | Botany | Department of Botany, P.U., Chandigarh, offers Hons. School course | 25 | 4 NRI+ 1 Foreign National | |
| | | S. Govt. College of Sci. Education & Research, Jagraon (Ludhiana). | 40 | 2 NRI | |
| | | Post Graduate Govt. College for Girls, Sector 11, Chandigarh. | 40 | - | |
| | | Govt. College for Girls, Ludhiana | 40 | - | |
| | | Dev Samaj College for Women, Ferozepur City | 40 | - | |
| | | Post Graduate Govt. College for Girls, Sector 42, Chandigarh. | 40 | - | |

iThe total no. of seats may vary depending on how many students of B.Sc. (Hons.) in Biochemistry OR Biophysics from Panjab University directly seek admission in M.Sc. iThe entrance test for Medical Physical, Physics (specialisation with electronics) and Physics will be common.

k Only those students who have cleared B.Sc. Biotechnology or B.Sc. with Biotechnology as elective / vocational course subject studied for 3 years are eligible.

AT THE TIME OF Counselling, the candidates seeking admission in M.Sc. Biotechnology should fill separate admission forms in colleges offering M.Sc. Course in Biotechnology. No Centralised Counselling will be done by the Department.

| 46 | Chemistry | Department of Chemistry, P.U., | 15 | 2 NRI+ 1 Foreign |
|----|----------------------|--|----------|------------------------------|
| | | Chandigarh, offers Hons. School course Post Graduate Govt. College, Sector 11, | 40 | National |
| | | Chandigarh. | 40 | - |
| | | Post Graduate Govt. College for Girls, Sector 11, Chandigarh. | 40 | - |
| | | S. Govt. College of Sci, Education & Research, Jagraon (Ludhiana). | 40 | 2 NRI |
| | | DAV College, Abohar. | 40 | |
| | | Guru Nanak Girls College, M.T. Ludhiana. | 40 | |
| | | GHG Khalsa College, Gurusar Sadhar, Ludhiana. | 40 | - |
| | | SGGS Khalsa College, Mahilpur Hoshiarpur. | 40 | |
| | | DAV College, Sector-10, Chandigarh. | 40 | |
| | | JCDAV College, Dasuya (Hoshiarpur). | 40 | |
| | | Swami Premanand Mahavidyalaya, Mukerian, Distt. Hoshiarpur | 40 | |
| | | GGN Khalsa College, Civil Lines, Ludhiana | 40 | - |
| | | Khalsa College, Garhdiwala Dev Samaj College for Women, | 40 40 | |
| | | Ferozepur City | | - |
| | | SCD Govt. College, Civil Lines, Ludhiana | 40 | - |
| | | A.S. College Khanna, Ludhiana | 40 | - |
| | 5. | BAM Khalsa College, Garhshankar, Distt. Hoshiarpur. | 40 | - |
| 47 | Physics ¹ | Department of Physics, P.U., Chandigarh, offers Hons. School course | 40 | 6 NRI+ 2 Foreign National |
| | | DAV College, Sector 10, Chandigarh. | 40 | - |
| | | GGDSD College, Sector 32, Chandigarh. | 40 | * |
| | | JCDAV College, Dasuya (HSP). | 40 | - |
| | | DAV College, Abohar. | 40 | - |
| | | Guru Nanak Girls College, M.T., Ludhiana. | 40 | - |
| | | SGGS Khalsa College, Mahilpur. | 40 | - |
| | | Dev Samaj College for Women, Ferozepur City. | 40 | - |
| | | GHG Khalsa College, Gurusur Sadhar. | 40 | - |
| | | Swami Premanand Mahavidyalaya, Mukerian, Distt. Hoshiarpur | 40 | - |
| | | BAM Khalsa College, Garhshankar, Distt. Hoshiarpur. | 40 | - |
| | | Guru Nanak National College, Doraha, Distt. Ludhiana. | 40 | - |
| | | Khalsa College for Women, Sidhwan Khurd | 40 | - |
| | | SCD Govt. College, Civil Lines, Ludhiana | 40 | - |
| | | G.N. National College, Doraha, Distt. Ludiana | One Unit | - |
| | | S.C.D. Govt. College, Civil Lines, Ludhiana | One Unit | - |
| | | Guru Nanak College, Sri Muktsar Sahib | 40 | - |
| | | Post Graduate Govt. College for Girls, Sector 11, Chandigarh. | 40 | - |
| | | Post Graduate Govt. College, Sector 11, Chandigarh. | 40 | - |
| l | | SGGS Sector 26, Chandigarh | 40 | - |

| 48 | Zoology | Department of Zoology, P.U., Chandigarh, offers Hons. School course | 14 | 2 NRI+ 1 Foreign National |
|----|---------|---|----|------------------------------|
| | | DAV College, Sector 10, Chandigarh. | 40 | - |
| | | JC DAV College, Dasuya, Hoshiarpur. | 40 | - |
| | | Post Graduate Govt. College for Girls, Sector 11, Chandigarh. | 40 | - |
| | | Sri Guru Gobind Singh College, Sector 26, Chandigarh. | 40 | - |
| | | Dev Samaj College For Women, Ferozepur City | 40 | - |
| | | DAV College, Abohar | 40 | - |
| | | Post Graduate Govt. College for Girls, Sector 11, Chandigarh. | 40 | - |

Faculty members are available in the respective Departments for consultation and guidance of students from 3:00 P.M to 4:00 P.M on working days.

Important Notes Common to all the Courses

- 1) Fee of Rs. 2395/- (Rs. 1198/- for SC/ST/PwD) is meant for only Online Application Form (main course). A candidate can apply in more than one course also. However, he/she will have to pay an additional fee of Rs. 675/- for each additional course.
- 2) Candidate availing concession in the fee under category SC/ST/PwD OR Class B/C Regular Employee of PU must send the copy of printout of their Entrance Test Form along with Performa for claiming 50% concession to P.U. Regular Employees ("B" and "C" Class) duly signed by Head/Chairperson, to Assistant Registrar, CET Cell, Aruna Ranjit Chandra, Hall, Panjab University, Chandigarh-160014 by registered post/speed post or by hand on or before 02-06-2023 (Friday) upto 4:00 PM
- 3) Qualifying an Entrance Test does not entitle a candidate to get admission in a course. The candidate will have to fill up and submit an online Admission Form at http://onlineadmissions.puchd.ac.in and has to meet the eligibility requirements of the course.
- 4) The exact number of seats available for various M.Sc. courses under the framework of Honours School System may vary depending upon the number of candidates already studying in Panjab University B.Sc. (Hons.) course who are eligible for promotion to M.Sc. under the framework of Honours School System.
- 5) The result of the Entrance Test will be available at http://results.puchd.ac.in. Noseparate Result Cards will be issued.
- 6) The cut-off marks for passing the Entrance Test for admission to MA (Journalism & Mass Communication) is 40% of the total marks except in case of candidates belonging to SC/ST who must secure a minimum of 35% marks. Only those candidates will be called for group discussion & interview, in order of merit, who have secured a minimum of 40% marks in the Written Test except in case of candidates belonging to Scheduled Castes / Scheduled Tribes who must secure a minimum of 35% marks.
- 7) The pass percentage in case of Entrance Test in MA (English), MA (Economics) and MA (History) is 35% (30% in case of candidate belonging to SC/ST/BC/PwD).
- 8) The University will publish Merit List of the candidates for the courses on the basis of attainment of a minimum of 20% (15% in case of candidates belonging to SC/ ST/BC/PwD) of aggregate of maximum marks in the Entrance Test taken as a whole except the courses mentioned at Sr. No. 6. 7 and 8.
- 9) The Scheme of Test for MBA for Executive (MBAfEX) will be of 85 marks and consists 85 multiple-choice questions of one mark each.
- 10) Candidates securing equal marks shall be bracketed together. Their *inter-se* merit will be determined by the Institution/Department/Centre to which they are seeking admission in accordance with the following criteria:
 - Candidate getting higher percentage of marks in the qualifying examination shall rank higher in order of merit.
 - b) If the marks in qualifying examination are also the same then the candidate obtaining more marks in the immediate lower examination, shall rank higher in order of merit.
 - c) If two or more candidates secure equal marks in (a) & (b) above, the candidate senior in age shall rank higher in the order of merit.
- 11) The final merit for admission shall be made by the concerned Department/Institute/Center after taking into account the various admission criteria and weightage, if applicable.
- 12) The date-wise schedule of, Tentative Merit List (which will be updated after seeking objections, if any); Provisional Merit List; Aptitude Test, Group Discussion, Personnel Interview etc., (wherever applicable); Counselling shall be put on the Online Notice Board of the department as well as Physical Notice Board (only for the courses offered in Panjab University Campus / Regional Centres) and also available at http://onlineadmissions.puchd.ac.in
- 13) Under the Choice-Based Credit System obtaining 24 credits in a Generic Elective Course (Subject) in the full B.Sc. (Hons.) course shall also be deemed sufficient to satisfy a requirement for admission to the M.Sc. course in the concerned subject. However, the candidate has to fulfill other requirements as mentioned for respective M.Sc. Courses.

The weightages as applicable to different courses are as follows:

| | Weightage (%) | |
|--|---------------|---------------------------|
| Course | Entrance Test | Qualifying Examination |
| LLM (Master of Laws) (Deptt. of Laws) | 100 | - |
| LL.M. (UILS, Chandigarh; UIL Regional Centre, Ludhiana; PUSSGRC, Hoshiarpur) | 80 | 20 |
| M.C.A. (Master of Computer Application) | 50 | 50 |
| M.A. (Journalism and Mass Communication) | 60 | 40 |
| Master in Public Health | 50 | 50 |
| M.A. (English) | 100 | = |
| M.A. (Geography) | 50 | 50 |
| Master in Disaster Management | 50 | 50 |
| Master in Geo-informatics | 50 | 50 |
| M.A. (Economics) | 100 | - |
| Master of Social Work ** | 40 | 20 |
| M.A.(History) | 50 | 50 |
| M.E. Electrical Engg. (Instrumentation & Control) Regular Programme | 50 | 50 |
| M.E. (Electronics and Comm. Engg.) (Regular Programme) | 50 | 50 |
| M.E. (Computer Science and Engg.) (Regular Programme) | 50 | 50 |
| M.E. Civil Engineering (Construction Tech. & Mgt.) (Regular Programme) | 50 | 50 |
| M.E. Mechanical Engineering (Manufacturing Tech.) Regular Programme | 50 | 50 |
| M.Com. (Business Economics) | 50 | 50 |
| M.Com. (Master of Entrepreneurship and Family Business) | 85 | 15* |
| M. Com (Hons.) | 85 | 15* |
| M.Com (Business Innovation) | 50 | 50 |
| Master of Business Administration for Executives (MBAfEX) | 85 | 15 [*] |
| M.P.Ed (Master of Physical Education) | 50 | 50 |
| B.P.Ed (Bachelor of Physical Education) | 50 | 50 |
| M.Sc. (under the framework of Honours School System) Biochemistry/Biotechnology/ Botany/ Chemistry/ Physics/ Biophysics /Computer Science/ Mathematics/Zoology/ Physics (Specialisation in Electronics)/ Geology | 60 | 40 |
| M.Sc. (Two-Year Course) Bioinformatics (being offered in the colleges affiliated to P.U.), Environment Science/ Human Genomics /Nuclear Medicine/ Stem Cell & Tissue Engineering / System Biology and Bioinformatics/ Forensic Science & Criminology/ Microbial Biotechnology / Statistics | 50 | 50 |
| M.Sc. (Two-Year Course) Medical Physics | 60 | 40 |
| M.Sc. (Two-Year Course) Instrumentation | 60 | 40 |

 $^{^{\}star}$ 7.5% marks Group discussion and 7.5% marks for personal interview. ** 20% marks Group discussion and 20% marks for personal interview.

Fake & Derecognized Universities and Institutes

The candidates who have passed/appeared in the qualifying examination from any of the following Universities (declared as fake by the UGC) are not eligible to appear in the Entrance Tests, as these institutions have been derecognized by the Panjab University.

<u>Delhi</u>

- 1. Commercial University Ltd., Daryaganj, Delhi.
- 2. United Nations University, Delhi.
- 3. Vocational University, Delhi.
- ADR-Centric Juridical University, ADR House, 8J, Gopala Tower, 25 Rajendra Place, New Delhi-110008.
- 5. Indian Institute of Science and Engineering, New Delhi.
- Viswakarma Open University for Self-employment, India, Rozgar Sewasadan,672, Sanjay Enclave. Opp. GTK Depot. New Delhi-110033
- Adhyatmik Vishwavidyalaya (Spiritual University), 351-352, Phase-1, Block-A, Vijay Vihar, Rithala, Rohini, Delhi-110085
- Indian Institute of Planning and Management (IIPM), 133/4, qutub Enclave, Phase-II, New Delhi-110 016
- 9. All India Institute of Public Health and Services, Alipur, Delhi

Karnataka

Badaganvi Sarkar World Open University Education Society, Gokak, Belgaum (Karnataka).

Kerala

11. St. John's University, Kishanttam, Kerala.

Maharashtra

- 12. Raja Arabic University, Nagpur.
- 13. Digital University of Skill Resurgence, Maharashtra

West Bengal

- 14. Indian Institute of Alternative Medicine, 80, Chowringhee Road, Kolkatta 20.
- 15. Institute of Alternative Medicine and Research, 8-A, Diamond Harbour Road, Builtech inn, 2nd Floor, Thakurpurkur, Kolkatta 700063.

Uttar Pradesh

- 16. Varanaseya Sanskrit Vishwavidyalaya, Varanasi (U.P.), Jagatpuri, Delhi.
- 17. Mahila Gram Vidyapith/ Vishwavidyalaya, (Women's University) Prayag, Allahabad (U.P.).
- 18. Gandhi Hindi Vidyapith, Prayag, Allahabad (Uttar Pradesh)
- 19. National University of Electro Complex, Homeopathy, Kanpur (Uttar Pradesh).
- 20. Netaji Subhash Chandra Bose University (Open University), Achaltal, Aligarh (Uttar Pradesh).
- 21. Uttar Pradesh Vishwavidyalaya, Kosi Kalan, Mathura (Uttar Pradesh).
- 22. Maharana Partap Shiksha Niketan Vishwavidyalaya, Partapgarh (Uttar Pradesh).
- 23. Indraprastha Shiksha Parishad, Institutional Area, Khoda, Makanpur, Noida Phase-II, Uttar Pradesh.

Odisha

- Nababharat Shiksha Parishad, Anupoorna Bhawan, Plot No. 242, Pani Tanki Road, Shaktinagar, Rourkela-769014.
- North Orissa University of Agriculture & Technology, University Road Baripada,, Distt. Mayurbhanj, Odisha- 757003

Puducherry

26. Sree Bodhi academy of Higher Education, No.186, Thilaspet, Vazuthavoor Road, Puducheey-605009

Andhra Pradesh

- 27. Christ New Testament Deemed University, # 32-23-2003, 7th Lane, Kakumanuvarithota, Guntur, Andhra Pradesh-522 002 or # fit No. 301, Grace Villa Apts., 7/5, Srinagar, Guntur, Andhar Pradesh-522 002
- 28. Bible Open University, Andhra Pradesh

Tamil Nadu

- 29. Open International University, Kurtdam for Alternate Medicines, Kuttalam
- * Bhartiya Shiksha Parishad, Lucknow, UP the matter is subjudice before the District Judge Lucknow

University de-recognized by Panjab University (Syndicate para 7, dated 20.03.2017)

E.I.I.L.M. University Sikkim degrees received after 2013-14

Eligibility Conditions and Scheme of Test

Master of Laws (L.L.M. One-Year Course and L.L.M. Two Year Course)

Eligibility Conditions

A person who has passed one of the following examinations shall be eligible after qualifying the entrance test to join the first semester class of the LL.M. Course:-

(a) LL.B. 3 Year Degree/ B.A. LL.B. / B.Com. LL.B. 5 Year degree examination of this University with minimum 55% marks (50% in case of SC/ST/BC/PwD candidates);

OR

(b) Any equivalent examination of another University recognized by the Syndicate for this purpose.

Scheme of Test

The duration of the Entrance Test will be of 1 hour and 30 minutes. The Entrance Test will be of 100marks. The questions will be based upon following five components:

| S.No | Components | Marks |
|------|--|--------|
| 1. | Pubic Law - Constitutional Law, Administrative Law, Service Law, Environmental Law & Human Rights | 20 MCQ |
| 2. | Criminal Law – IPC, Criminal Procedure Code, Law of Evidence, NCPS Act, Prevention of Corruption Ac t& PML Act | 20 MCQ |
| 3. | Civil Law – Family Law, Civil Procedure Code, Arbitration and Conciliation Act & Specific Relief Act | 20 MCQ |
| 4. | Commercial Law – Contract Act, Negotiable Instruments Act, Partnership Act, Sale of Goods act, Company Law & The Competition Act | 20 MCQ |
| 5. | Other Laws – RTI Act, IPR Laws & Cyber Laws | 20 MCQ |

Master of Computer Applications M.C.A.2-Year Course and M.C.A. (Evening)(Self-Financing) 2-YearCourse

Eligibility Conditions

The minimum qualification for admission to the first Year of the course shall be:

A recognized first degree of minimum three Years' duration in any discipline with at least 50% marks(**) and with Mathematics at 10+2 or at graduation level (all three Years);

Or

ii) B.C.A. from Panjab University with 50% marks (**)

Or

iii) B.Voc. (Software Development), B.Voc. (Hardware and Networking) & B.Voc. Multimedia (Graphics & Animation) with at least 50% marks (**) and with Mathematics at 10+2 level.

Or

iv) Any examination recognized by the Panjab University Chandigarh as equivalent to any of the above examination (i), (ii) or (iii).

Scheme of Test

The test of 1 hour 30 minutes duration shall contain 75 Objective Type (Multiple choice questions with four responses i.e. A, B, C, & D) carrying one mark each.

The questions will be based upon following four components:

| | Component | No. of Questions |
|---|--------------------------|------------------|
| 1 | Mathematics (10+2 level) | 40 |
| 2 | Computer Science | 15 |
| 3 | English | 10 |
| 4 | Reasoning & Aptitude | 10 |

^{** 5%} concession is admissible in eligibility requirement to SC/ST/BC/PwD candidates.

M.A. Journalism and Mass Communication

Eligibility Conditions

Passes one of the following examinations from a recognized University:-

(i) Bachelor's degree in any discipline with 50% marks in the aggregate.

OR

(ii) Bachelor's degree with at least 45% marks in the subject of Journalism & Mass Communication.

OR

(iii) Bachelor's degree with Hons. In the subject of Journalism & Mass Communication.

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(iv) Master's degree examination in any other subject.

Scheme of Test

The test of1 hour and 30 minutes duration will comprise of Objective & Subjective Type Questions for 65 marks out of the total 75 marks. The remaining 10 marks would be divided equally between the group discussion and interview to be held consequent to the entrance test. The test will be divided into five following components:

- 1. Article writing on current issues
- 2. Feature writing on current personalities
- Analytical writing
- 4. Current Affairs
- 5. General Knowledge

Candidates who clear the entrance test have to apply afresh in the School of Communication Studies. The cutoff marks for passing the Entrance Test for admission to MA (Journalism & Mass Communication) is 40% of total marks of the total marks except in case of candidates belonging to SC/ST who must secure a minimum of 35% marks.

Master in Public Health

Eligibility Conditions

MBBS / BDS/ BAMS/ BHMS/ B.VSC/ B.Sc. Nursing, Life Sciences / Biological Sciences with at least 50% marks from recognized University / Institute.

Scheme of Test

The duration of the Entrance Test will be 1 hour 30 minutes and it will consist of 75 multiple-choice questions of one mark each. There will be 25 from Biological Sciences, 10 from Social Sciences, 25 from Health Sciences and Medical Vocabulary, 15 on Environment Sciences.

M.A. (English)

Eligibility Conditions

A person who has passed one of the following examinations from Panjab University or from any other University whose examination has been recognized equivalent to the corresponding examination of this University:

- i. Bachelor's Degree obtaining at least 45% marks in English Elective or English Compulsory subject.
- ii. Bachelor's Degree in any faculty with 50% marks in the aggregate.
- iii. B.A. with (Hons.) in English\
- iv. B.A./B.Sc. with (Hons.) in subject other than English obtaining at least 50% marks in aggregate.
- v. Masters Degree examination in any other subject with 50% marks in aggregate. The pass percentage in case of entrance test in English stands increased to 35% (30% in case of candidate belonging to SC/ST/BC/PwD) w.e.f the session 2013-2014.

Scheme of Test

The written Test will be of 1 hour and 30 minutes duration and will carry 75 marks. The pattern of the CET should be as follows:

| 1. | An essay of about 400 words | 25 marks |
|----|---|----------|
| 2. | An unseen poem as a reading comprehension passage. Knowledge of | |
| | Literary appreciation will also be tested in this question | 20 marks |
| 3. | Precis - Writing | 15 marks |
| 4. | Short Answer Questions | 15 marks |

MA (Geography)

Eligibility Conditions

A person shall be eligible only if:-

- 1. he/she has a Bachelor's Degree with atleast 50% marks in the aggregate.
- 2. he/she has passed in Geography in the B.A. or B.Sc. examination with at least 45% marks;

OR

has obtained Post-graduate diploma in Cartography with atleast second division.

The Admission to the course shall be through an Entrance Test. The apportioning of weightages for the purpose of preparing the merit list will be as follows:-

Written Entrance Test: 50%

Qualifying Examination (Bachelor's degree): 50%

Academic and other weightage(s), if any, shall be based on the percentage of marks obtained by the eligible candidates in the Qualifying Examination (Bachelor's Degree) as prescribed and admissible under Panjab University Rules.

Scheme of Test

The duration of the Entrance Test will be 1 hour 30 minutes and it will consist of 75 multiple-choice questions of one mark each.

Masters in Disaster Management

Eligibility Conditions

Graduation in any discipline with atleast 50% marks in aggregate from Panjab University or from any other University recognized by the Panjab University as equivalent thereto. The Admission to the course shall be through an Entrance Test.

All candidates, except those sponsored by the Government / Institutions, will be required to qualify the Entrance Test conducted by the Panjab University, Chandigarh. The apportioning of Weightages for the purpose of preparing the merit list will be as follows:-

Written Entrance Test: 50% Qualifying Examination (Bachelor's degree): 50%

Academic and other weightage(s), if any, shall be based on the percentage of marks obtained by the eligible candidates in the Qualifying Examination (Bachelor's Degree) as prescribed and admissible under Panjab University Rules.

Scheme of Test

The duration of the Entrance Test will be 1 hour 30 minutes and it will consist of 75 multiple-choice questions of one mark each.

Masters in Geoinformatics

Bachelor's Degree with Geography / Geology / Geophysics / Mathematics / Physics / Botany / Environment Science / Computer Science / Urban Planning / Regional Planning / B.Tech. / B.C.A. or Master's Degree in Geography / Geology/ Geophysics/ Mathematics/ Physics/Botany/ Environment Science / Computer Science / Computer Applications/ Urban Planning / Regional Planning with at least 50% marks in aggregate. The admission to the course shall be through Entrance Test.

All candidates, except those sponsored by the Government / Semi-Government Organizations and Institutions, will be required to qualify the Entrance Test conducted by the Panjab University, Chandigarh. The apportioning of Weightages for the purpose of preparing the merit list will be as follows:-

Written Entrance Test: 50% Qualifying Examination (Bachelor's degree): 50%

Students who have studied Geography at the B.A./B.Sc./ M.A./ M.Sc. level shall be given an additional weightage of 15 per cent of the academic score at Bachelor's level.

Academic and other weightage(s), if any, shall be based on the percentage of marks obtained by the eligible candidates in the Qualifying Examination (Bachelor's Degree) as prescribed and admissible under Panjab University Rules.

Scheme of Test

The duration of the Entrance Test will be 1 hour 30 minutes and it will consist of 75 multiple-choice questions of one mark each.

M.A. (History)

Eligibility Condition: Any one of the following

- B.A. with Hons. in History.
- Bachelor's degree in any faculty with at-least 50% marks in the aggregate.
- B.A. (PASS) / B.Sc. (PASS) examination in full subjects obtaining at-least 45% marks in the subject of History.
- Master's degree examination in another subject or another faculty AND

The pass percentage of entrance test in history is 35% (30% in case of candidates belonging to SC/ST/BC/PwD).

The candidates should have passed the written Entrance Test conducted by Panjab University, Chandigarh. The merit list will be prepared considering the marks obtained in the Entrance Test and the Qualifying Examination as per the following criteria:-

Written Entrance Test : 50% Qualifying Examination : 50%

Academic and other weightages if any will be based on the percentage of marks obtained by the eligible candidates in the Qualifying examination.

Scheme of Test

- ♦ Entrance Test to be of 1 hour 30 minutes of duration and of total of 75 marks.
- ♦The test is divided into three units, i.e. Unit-I, II and III.
- ♦ Candidates will attempt 3 questions in all, selecting them from Unit-I, II & III.
- ◆Candidates can write answers in English or Hindi or Punjabi languages.
- ♦ Question No. 1 under Unit-I is compulsory. It consists of 08 concept related questions. Out of these 08, candidates will attempt any 05. Each question has to be answered in 80-100 words. Each question carries 05 marks. Total marks allotted to Question I under Unit-I are 5x5=25 marks.
- ♦Unit-II consists of 04 Essay type Questions, from Question No. II to IV which are related to B.A. (General) History syllabus. Atleast one question in Unit-II should be set each from Ancient, Medieval, Modern periods of India History and the History of Punjab. Candidates will attempt any one question in Unit-II. Each question has to be answered in about 1000 words. Each question carries 25 marks.
- ♦Unit-III contains 02 questions i.e Question No. VI and VII, one from Current Affairs and another from Significant Contemporary themes in order to test comprehension and communication skills of the candidates. Candidates will attempt any one question in Unit-III. Each question has to be answered in about 1000 words. Each question carries 25 marks.

M.A. (Economics)

Eligibility Conditions:

The candidates appearing for the Entrance Test for admission to M.A. Economics in the Department of Economics, Panjab University, Chandigarh from the academic session 2019-20 will be subject to the following eligibility conditions:

- The candidate must have passed B.A. with Honours in Economics, OR
 B.A. with Economics as an elective subject with 50% marks in aggregate.
- (ii) Any other degree awarded by a UGC recognized University / Institution that is equivalent to either of the above mentioned degrees of the Panjab University.
- (ii) Candidate having reappear or compartment at the time of first counseling is not eligible for admission in the course even though he/she clears the reappear or compartment by the time of subsequent round of counseling.

Scheme of Test:

- (i) The duration of the Entrance Test will be one hour and thirty minutes and it will consist of 75 multi-choice questions of one mark each based on the **syllabus available at**https://economics.puchd.ac.in/show-noticeboard.php?nbid=13 There will be negative marking for wrong answers. 1/4 marks will be deducted for wrong answers.
- (ii) The Pattern of question paper of the Entrance Test would include questions pertaining to the various aspects of Economics as per the following scheme:

| <u>Specialization</u> | No. of questions |
|---|------------------|
| (a) Microeconomics | 10 |
| (b) Macroeconomics | 10 |
| (c) Indian Economy | 10 |
| (d) Economics of Growth, Development & Planning | 10 |
| (e) Mathematics and Statistics | 10 |
| (f) Econometrics | 10 |
| (g) Applied Economics- | 10 |
| (Industrial Economics, Agricultural Economics, | (2 from each) |
| International Economics, Public Finance and | |
| Money and Banking) | |
| (h) Logical Reasoning | 05 |

NOTE:

- Admission to M.A. in Economics should be done purely on the basis of Entrance Test only.
- Entrance Test shall be in English only

Master of Social Work*

Eligibility Conditions

The Entrance Test is open to all such candidates who have any one of the following qualifications:

- (a) Bachelor's degree in any discipline with at least 50% marks from a recognized University / Institute.
- (b) The Candidate belonging to SC/ST/BC/PwD categories shall be allowed 5% relaxation in the eligibility requirements.
- (c) The candidates who have appeared / are appearing in the final year of Bachelor's degree are also eligible to apply. However, their admission will be subject to fulfillment of eligibility conditions.

Admission: Admission will be through qualifying the P.U. CET (PG) examination.

All the candidates are required to secure a minimum of 35% marks in the Entrance Test. The Entrance test will include 75 objective type questions. The duration of the test will be 90 minutes. The medium of examination will be English only. There will be no negative marking for the wrong answers.

Candidates who qualify entrance test will be called for Group Discussion and Personal Interview as per the admission schedule approved by the DUI.

M.E. Electrical Engg. (Instrumentation & Control) (Regular Programme)

Eligibility Conditions

A Bachelor's Degree in Electrical Enginering / Electronics Engineering / Insturmentation and Control Engineering from a recognized University or its equivalent with at least 60% marks in aggregate and post qualification experience of at least 1 year (2 Years in case of AMIE) in teaching / industry / research organization.

GATE qualified candidates will be exempted from the PU-CET (PG) 2023 Test. However, in case of eligible GATE qualified candidates, the merit list will be as per the GATE Score obtained and shall be offered the seat at the first instance.

^{*} Subject to the approval of the Competent Authority.

Scheme of Test

The duration of the Entrance Test will be 1 hour 30 minutes. The question paper will consist of 75 multiple-choice questions. The syllabus will be based broadly on the course contents generally covered during qualifying examinations. Each question will be of one mark.

M.E. (Electronics and Communication Engineering) (Regular Programme)

Eligibility Conditions

A Bachelor's Degree in Electronics and Communication Engineering from a recognized University or its equivalent with at least 60% marks in aggregate and post qualification experience of at least 1 year (2 years in cases of AMIE) in teaching / industry / research organization.

GATE qualified candidates will be exempted from the PU-CET (P.G.)-2023 Test. However, in case of eligible GATE qualified candidates, the merit list will be as per the GATE score obtained and shall be offered the seat at the first instance.

Scheme of Test

The duration of the Entrance Test will be 1 hour 30 minutes. The question paper will consist of 75 multiple-choice questions. The syllabus will be based broadly on the course contents generally covered during qualifying examinations. Each question will be of one mark.

M. E. (Computer Science & Engineering) (Regular Programme)

Eligibility Conditions

A Bachelor's Degree in Computer Science & Engineering / Electronics Engineering/ Electrical Engineering / Instrumentation and Control Engineering / Information Technology from a recognized University or its equivalent with at least 60% marks in aggregate and post qualification experience of at least 1 year (2 years in case of AMIE) in teaching / industry/ research organization.

GATE qualified candidates will be exempted from the PU-CET (P.G.) -2023 Test. However, in case of eligible GATE qualified candidates, the merit list will be as per the GATE score obtained and shall be offered the seat in the first instance.

Scheme of Test

The duration of Entrance test will be 1 hour 30 minutes. The question paper will consist of 75 multiple-choice questions. The syllabus will be based broadly on the course contents generally covered during qualifying examinations. Each question will be of one mark.

M.E. Civil Engineering (Construction Technology & Management) (Regular Programme)

A Bachelor's Degree in Civil Engineering from a recognized University or its equivalent with at least 60% marks in aggregate and post qualification experience of at least 1 year (2 years in case of AMIE) in teaching / industry/ research organization.

GATE qualified candidates will be exempted from the PU-CET (P.G.) 2023 Test. However, in case eligible GATE qualified candidates, the merit list will be as per the GATE score obtained and shall be offered the seat at the first instance.

Scheme of Test:

The duration of the Entrance Test shall be of 1 hour and 30 minutes. The question paper will consist of 75 multiple choice questions. The syllabus will be based broadly on the course contents generally covered during qualifying examinations. Each question will be of one mark.

M.E. Mechanical Engineering (Manufacturing Technology) (Regular Programme)

Eligibility Conditions:

A Bachelor' Degree in Mechanical Engg./ Manufacturing Technology /Production Engg./ Industrial Engg./ Automobile engineering from a recognized University or its equivalent with atleast 60% marks in aggregate and post qualification experience of at least 1 year (2 years in case of AMIE) in teaching / industry / research organisation.

GATE qualified candidates will be exempted from the PU-CET 2023 (P.G.) Test. However, in case of eligible GATE qualified candidates, the merit list will be as per the GATE score obtained and shall be offered the seat at the first instance.

Scheme of Test:

The duration of the Entrance Test shall be of 1 hour and 30 minutes. The question paper will consist of 75 multiple choice questions. The syllabus will be based broadly on the course contents generally covered during qualifying examinations. Each question will be of one mark.

M.Com. (Business Economics)

Eligibility Conditions

(i) A Bachelor's / Post-graduate degree in any discipline of the University or a degree of any other University which has been recognized by the Syndicate as equivalent thereto with not less than 50% marks in the aggregate.

Provided that in case of candidates having Bachelor's degree of the University through Modern Indian Languages [Hindi/ Urdu/ Punjabi (Gurmukhi Script)] and / or in a Classical Language (Sanskrit / Persian / Arabic) or degree of any other University obtained in the same manner recognized by the Syndicate, 50% marks in the aggregate shall be calculated by taking into account full percentage of marks in all the papers in language excluding the additional optional paper, English and the elective subject taken together.

Or

(ii) Pass in the final examination conducted by (a) The Institute of Chartered Accountants of India or England, (b) The Institute of Cost and Works Accountants of India or Englandand (c) the Institute of Company Secretaries of India.

Or

(iii) AMIE examination with 50% marks or more after having passed the diploma examination with 60% marks or above and have atleast 5 years research / teaching or professional experience.

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(iv) Any other qualification as recognized by the Syndicate for this purpose.

Scheme of Test

The question paper of 1 hour 30 minutes duration will consist of 75 Objective Type Questions (Multiple Choice) with four responses i.e. A, B, C & D carrying a total of 75 marks. The standard of the question paper shall be based on the latest syllabus prescribed for Bachelor's degree in Economics/Commerce of Panjab University (1st, 2nd and 3rdYear together).

M.Com. (Master of Entrepreneurship and Family Business)

Eligibility Conditions

(i) A Bachelor's/Master's degree in any discipline of the University or a Degree of any other University which has been recognized by the Syndicate as equivalent thereto, with not less than 50% marks in the aggregate.

Or

(ii) A pass in the final examination conducted by (a) The Institute of Chartered Accounts of India,
 (b) The Institute of Cost and Works Accountants of India and (c) The Institute of Company Secretaries of India.

Scheme of Test

The question paper of 1 hour 30 minutes duration will consist of 75 Objective Type Questions (Multiple Choice) with four responses i.e. A, B, C & D carrying a total of 75 marks. The question paper will include

questions related to General Knowledge, Verbal/Reasoning ability, Data interpretation and Commerce/Economics.

M.Com. (Honours) (Under Hons. School System at UBS)

Eligibility Conditions

 a) A Bachelor's degree in Commerce or Business Administration with not less than 50% marks in the aggregate;

Or

b) B.Com. (Hons.) Degree with not less than 50% marks in the aggregate;

Or

 A graduate with Honours in Economics OR Mathematics OR Statistics OR Commerce with not less than 50% marks in the aggregate;

Or

d) A graduate with 55% marks in the aggregate having offered either Economics, Mathematics, Statistics or Commerce as a subject in the examination

Provided that in case of candidates having Bachelor's degree of the University through Modern Indian Languages [Hindi/Urdu/Punjabi (Gurumukhi Script)] and / or in a Classical language (Sanskrit / Persian / Arabic) or degree of any other University obtained in the same manner recognized by the Syndicate; 55% marks in the aggregate shall be calculated by taking into account full percentage of marks in all the papers in Language excluding the additional optional paper, English and the elective subject taken together;

Or

e) An associate of the (i) Institute of Chartered Accountants of India or England or (ii) Institute of Cost and Works Accountants of India or England;

Or

f) A pass in the final examination conducted by the Institute of Company Secretaries of India;

Or

g) Any other qualification recognised by the Syndicate for this purpose.

Provided that a candidate who seeks admission on the basis of qualifications mentioned in (c), (d), (f) above shall be required to qualify within one year from the date of admission (either with Semester I examination or with Semester II examination) in a special examination in two papers on (i) Commercial and Taxation Laws, and (ii) Accounting and Auditing, in accordance with the Syllabus as may be prescribed by the Senate.

Further that the maximum marks shall be 100 in each paper and the pass marks shall be 35% as in B.Com. examination. There shall be no internal assessment in these papers and marks in these papers will not be counted for the Semester examination.

h) 5% relaxation in minimum marks requirement would be granted to SC/ST/BC/PwD candidates as per PU guidelines.

Scheme of Test

The Entrance Test of 1 hour 30 minutes duration shall comprise of one paper of 85 multiple choice (having four responses A, B, C & D) objective type questions of one mark each in the area of Accounting, Management, Laws and Economics.

Merit list

The admission will be made on the basis of the Entrance Test (85% weightage), Group Discussion (7.5% weight age) and Personal Interview (7.5% weightage). The result of the Entrance Test, however, will not be sent to the candidates but will be conveyed confidentially to the Chairman, University Business (UBS) who will compile comprehensive result after the Group Discussion and Interview.

Note:

- (a) The number of candidates to be called for Group Discussion and Personal Interview will be equal to eight times the total number of seats of the course in each category or the actual number of eligible candidates whichever is lower;
- (b) Attendance in Group Discussion and Personal Interview is a must. If any candidate does not attend any one of the components, GD or PI, his / her candidature shall stand cancelled.

M.Com (Business Innovations)

Eligibility Conditions

The Entrance Test for M.Com (Business Innovations) shall be open to all such candidates who possess the qualifications as mentioned below:

- (a) A Bachelor's degree in Commerce (B.Com) or Business Administration (B.B.A) with not less than 45% marks in the aggregate; OR
- (b) B.Com (Hons.) Degree with not less than 45% marks in the aggregate; OR
- (c) A graduation with Honours in Economics OR Mathematics OR Statistics OR Commerce with not less than 45% marks in the aggregate; OR
- (d) A graduation with 50% marks in the aggregate in any other discipline of the University or a degree of any other University which has been recognized by the Syndicate as equivalent thereto. Provided that in case of candidates having Bachelor's degree of the University through Modern Indian Languages (Hindi/Urdu/Punjabi/Gurumukhi script) and / or in a classical language (Sanskrit/Persian/ Arabic) or degree of any other University obtained in the same manner recognized by the Syndicate. 50% marks in the aggregate shall be calculated by taking into account full percentage of marks in all the papers in Language excluding the additional optional paper, English and the elective subject taken together;
- (e) A pass of the final examination conducted by the Institute of Chartered Accountants of India or Institute of Cost and Works Accountants of India or the Institute of Company Secretaries.
- (f) Any other qualification recognized by the Syndicate for this purpose.

Scheme of Test:

The Entrance Test of 1 hour 30 minutes duration shall comprise one paper of 75 marks containing 75 Objective Type questions of multiple choices (having four responses A, B, C & D) carrying one mark each. The Breakup of questions shall be as follows:

1. General Knowledge 15 Questions

2. Business Aptitude 20 Questions

3. Quantitative Aptitude 20 Questions

4. Test of Reasoning 20 Questions

Merit

Admission to M.Com (Business Innovation) shall be on the basis of the Entrance Test (Weightage 50%), and qualifying examination (Weightage 50%).

Master of Business Administration for Executives (Under Hons. School System at UBS)

Eligibility Conditions:

The minimum qualification for admission to the first semester of the course shall be -

- A Bachelor's or Master's degree in any discipline with not less than 50% marks in the aggregate or any other examination with 50% marks recognized by the University as equivalent thereto; OR
 - Final examination of the Institute of Chartered Accountants of India or Institute of Cost and Works Accountants of India or the Institute of Company Secretaries of India; OR
 - Diploma in Personnel Management and Labour Welfare or Diploma in Marketing Management with not less than 60% marks in the aggregate, provided the candidate holds a Bachelor's degree.
- (ii) Two years whole time executive experience in a commercial or Industrial establishment after passing the qualifying examination as given above. Members of all India or State Administrative / Technical Services and Defence Personnel holding administrative posts with not less than 2 years executive experience will also be eligible. No Objection Certificate from the employer is essential.
- (iii) 5% relaxation in minimum marks requirement would be granted to SC/ST/BC/PwD candidates as per PU guidelines.

Scheme of Test:

The Entrance Test will carry 85 marks and will be of 1 hour 30 minutes duration. It will consist of 85 multiple-choice questions of one mark each and having four responses A, B, C & D. The components of the test will include: General Knowledge; Economics and Business Environment Awareness; Data interpretation and problem solving; Numerical Ability; Verbal Ability/ Reasoning and English Comprehension.

Merit List

The admission will be made on the basis of the Entrance Test (85% weightage), Group Discussion (7.5% weightage) and Personal Interview (7.5% weightage). The result of the Entrance Test, however, will not be sent to the candidates but will be conveyed confidentially to the Chairman, University Business (UBS) who will compile comprehensive result after the Group Discussion and Interview.

Master of Physical Education (Two-Year Course)

Eligibility Conditions

A person who has passed/appeared in any one of the following examinations:

a) Bachelor of Physical Education (B.P.Ed.) or equivalent with at least 50% marks.

OR

- Bachelor of Science (B.Sc. in Health and Physical Education) with at least 50% marks.
- b) The reservation in seats and relaxation in the qualifying marks for SC/ST/BC/PWD and other categories shall be as per the rules of the Central Government/ State Government whichever is applicable.
- c) Any other qualification recognized by the Syndicate as equivalent thereto.

Admission Procedure

Admission shall be made on merit on the basis of marks obtained in the entrance examination (written test, fitness test, interview and percentage of qualifying examination) as per the policy of Panjab University.

Scheme of Test

The Entrance Test of 1 hour 30 minutes duration shall comprise one paper of 75 marks, containing 75 Objective Type questions of multiple choices (having four responses A, B, C & D) carrying one mark each. Questions will be based on the following three areas of Physical Education and Sports: (a) Aptitude (b) General Knowledge (c) Reasoning Ability.

Bachelor of Physical Education (Two-Year Course)

Eligibility Conditions

A person who has passed/appeared in any one of the following examinations:

 a) Bachelor's Degree in any discipline with 50% marks and having at least participation in the Inter-College/Inter-Zonal District/ School competition in sports and games as recognized by the AIU/IOA/SGFI/Govt. of India;

OR

Bachelor's Degree in Physical Education with 45% marks;

OR

Bachelor's Degree in any discipline with 45% marks and studied Physical Education as compulsory elective subjects;

OR

Bachelor's Degree with 45% marks and having participated in National / Inter University / State competitions or secured 1st, 2nd or 3rd position in Inter College / Inter-Zonal /District / School competition in sports and games as recognized by the AIU/ IOA/SGFI/Govt. of India;

ÓR

Bachelor's degree with participation in International competitions or secured 1st, 2nd or 3rd position in National / Inter-University competition in sports and games as recognized by respective federations / AIU/ IOA/SGFI/Govt. of India:

OR

Graduation with 45% marks and at least three Years of teaching experience (for deputed inservice candidates i.e. Trained Physical Education Teachers / Coaches)

OR

b) Any other qualification recognized by the Syndicate as equivalent to above points.

The relaxation in the percentage of marks in the qualifying examination and in the reservation of seats for SC/ST/BC/PwD and other categories shall be as per the rules of the Central Government / State Government, whichever is applicable.

Scheme of Test

The Entrance Test of 1 hour 30 minutes duration **shall** comprise one paper of 75 marks containing 75 Objective Type questions of multiple choices (having four responses A, B, C & D) carrying one mark each.

Questions will be based on the following three areas of Physical Education and Sports: (a) Aptitude (b) General Knowledge (c) Reasoning Ability

M.Sc.in Biophysics, Biotechnology, Biochemistry, Botany, Chemistry, Mathematics, Physics, Physics (Specialization in Electronics), Zoology and Geology

Important Note: Under the Choice-Based Credit System obtaining 24 credits in a Generic Elective Course (Subject) in the full B.Sc (Hons.) course shall also be deemed sufficient to satisfy a requirement for admission to the M.Sc. course in the concerned subject. However, the candidate has to fulfill other requirements as mentioned for respective M.Sc. Courses under the framework of Honours School System.

Eligibility Conditions

B.A./ B. Sc. (Pass or Hons.) examination with 50% marks (45% marks in case of SC/ST/BC/PwD) of the Panjab University or any other examination recognized by the Panjab University as equivalent thereto with the subject desirous of seeking admission in M.Sc. Course as an elective subject for three Years.

For Entrance Test to **M. Sc. (Mathematics)under the framework of Honours School System:-** B.A. / B. Sc. (General) with 50% marks (45% marks in case of SC/ST/BC/PwD) Mathematics as a major subject or B.A/B.Sc. with Hons. 50% marks in Mathematics of P.U. or any other Universities as recognized by the Panjab University as equivalent thereto or B.Sc. (Hons.) in any subject under CBCS with 24 Credits in Mathematics as Generic Elective subject. The candidates who are already students of Panjab University Teaching Department and have passed/appeared/appearing in the B.Sc. (Hons.) final examination of the University during the current session in the relevant subject are not required to appear in the **M.Sc. Admission Entrance Test**. Their admission to the course shall be governed by the relevant rules and regulations of the University.

For M.Sc. (Physics) under the framework of Honours School System:-B.Sc. (Pass) or B.Sc. (Hons.) Physics examination of P.U. with Physics and Mathematics as elective subjects, or any other examination recognized as equivalent thereto with 50% marks; OR B.Sc. (Hons.) in Physics under Choice-based Credit System (CBCS) with 50% marks; Or B.Sc. (Hons.) in any subject under Choice-based Credit System with 24 credits in Physics as Generic Elective (GE) subject and Mathematics as Major / GE subject with 50% marks.

For M.Sc. Physics (Specialization in Electronics) under the framework of Honours School System: B.Sc. (Pass) or B.Sc. (Hons.) Physics examination of P.U. with Physics and Mathematics as elective subjects, or any other examination recognized as equivalent thereto with 50% marks; or B.Sc. (Hons.) in Physics under Choice-based credit system (CBCS) with 50% marks; Or B.Sc. (Hons.) in any subject under Choice-based credit system with 24 credits in Physics as Generic Elective (GE) subject and Mathematics as Major/GE subject with 50% marks Or B.Sc. (Hons.) Electronics, Or B.Tech./B.E. (Electronics / Electrical/Mechanical or equivalent) with 50% marks.

For M.Sc. (Biophysics) under the framework of Honours School System:-B.Sc.(Hons.) in Biophysics, Panjab University, Chandigarh or any other University considered equivalent. Bachelor of Science in any other subject (such as B.Sc. Medical, Non-medical, Biotechnology, Bioinformatics, etc.). Students who have passed B.Sc. (Hons.) in Biophysics from Panjab University, Chandigarh will be directly promoted to M.Sc. (Hons.) in Biophysics. However, all other applicants need to qualify the CET-PG in Biophysics conducted by the Panjab University, Chandigarh.

For M.Sc. (Chemistry) under the framework of Honours School System:-Passed B.Sc. (Hons.) in Chemistry from department of Chemistry, P.U. ii)B.Sc. (Pass or Hons.) examination with 50% marks from PU or any other University recognized as equivalent thereto with (a) Chemistry in all the three years/six semesters and (b) any two science subjects during two years/four semesters during graduation. Iii) B.Sc. (Hons.) in any subject under Choice-based Credit System with 24 Credits in Chemistry as Generic Elective Subject.

For M.Sc. (Biotechnology) under the framework of Honours School System: B.Sc. Biotechnology with 50% marks or B.Sc. (50% marks) with Biotechnology as Elective/Vocational subject (studied for 3 Years) are eligible.

For M.Sc. (Geology) under the framework of Honours School System: B.Sc. 3 year's course with Geology as one of the subjects with 50% marks in B.Sc. & 50% marks in subject of Geology in B.Sc.

*For M.Sc. (Biochemistry) under the framework of Honours School System:- 50% marks in B.Sc. (pass or Hons.) exam of the P.U. with Biochemistry as elective subject. Student should have studied Biochemistry as one of the elective subjects every semester.

Note: B.Sc. (MLT) Course has not been made equivalent to B.Sc. (Hons.) Biochemistry of Panjab University.

For M.Sc. (Zoology) under the framework of Honours School System: B.Sc. (Pass) or B.Sc. (Hons.) Zoology examination of P.U. with Zoology as one of elective subject, or any other examination recognized as equivalent there to with 50% marks (45% marks in case of SC/ST); OR B.Sc. (Hons.) in Zoology under Choice-based Credit System (CBCS) with 50% marks; OR B.Sc. (Hons.) in any subject under Choice – based Credit System with 24 credits in Zoology as Generic Elective (GE) subject.

Scheme of Test

The question paper will be on the concerned subject for which the admission to M.Sc. (Hons.) is being sought by the candidate. It will consist of 75 Objective Type Questions (Multiple Choice with four responses i.e. A, B, C & D) carrying a total of 75 marks. The question paper will be of 1 hour 30 minutes duration. The standard of the question paper shall be based on latest syllabus prescribed for Bachelor's degree of Panjab University (1st, 2nd and 3rdYear together) in the relevant subject.

M.Sc. (Computer Science) under the framework of Honours School System

Eligibility Conditions

BCA/ B.Sc. (Honours) (Computer Science / Information Technology / Computer Applications)/ B.Tech. (Computer Science / Computer Engineering / Information Technology) / B.E. (Computer Science / Computer Engineering / Information Technology) / B.Sc. (General) with Computer Science / Information Technology / Computer Applications as an elective subject / B.Sc. (Maths and Computing) / B.Voc. [Software Development / Hardware and Networking / Multimedia (Graphics and Animation)] or any other examination recognized as equivalent with 50% marks thereto.

5% concession is admissible in eligibility requirements to SC/ST/BC/PwD candidates.

Scheme of Test

The Entrance Test will be of 75 marks. It will be of 1 hour 30 minutes duration consisting of 75 multiple choice questions of Computer Science subject at the level of examinations as mentioned in the eligibility conditions.

M.Sc. (Environment Science) (Two-Year Course)

Eligibility Conditions

Bachelor's Degree with minimum 50% marks in aggregate from any Science/ Engineering Stream or any other stream with Honours in Geography as one of the subjects from P.U. or any other recognized University.

Scheme of Test

The Entrance Test will be of 1 hour 30 minutes duration. It shall comprise 75 multiple-choice questions (with only one right answer) of one mark each from the Botany, Chemistry, Geography, Geology, Mathematics, Physics, Sociology, Statistics, Zoology and General Awareness subjects of graduation level. It shall attempt to test the intelligence, comprehension of the scientific principles and general knowledge expected of a science graduate.

M.Sc. (Human Genomics) (Two-Year Course)

Eligibility Conditions

B. Sc. (Pass or Honours) under 10+2+3 pattern examination of the Panjab University or any other examination recognized by the Panjab University as equivalent thereto in Physical, Chemical, Biological, Pharmaceutical Sciences or Medicine with at least 55% marks.

Scheme of Test

The Entrance Test will be of 75 marks. It will be of 1 hour 30 minutes duration consisting of 75 multiple choice questions (with only one correct answer) of 1 Mark each from six disciplines representing Physics, Chemistry, Mathematics, Biology, Pharmaceutical Sciences and Medicine.

^{*} Subject to the approval of the Competent Authority.

M.Sc. (Instrumentation) (Two-Year Course)

Eligibility Conditions

B.Sc. (Medical / Non-medical / any stream of Science or B.E./ B.Tech. in any discipline with minimum 50% marks in aggregate. 5% concession is admissible in eligibility marks to SC/ST/BC/ PwD candidates.

Scheme of Test

The Entrance Test will be of 75 marks. It will be of 1 hour 30 minutes duration consisting of 75 multiple choice questions (with only one correct answer) of 1 Mark each.

M.Sc. (Nuclear Medicine) (Two-Year Course)

Eligibility Conditions

Minimum qualification for admission to M.Sc. first Year in Nuclear Medicine shall be B.Sc. degree with at least 50% marks in Nuclear Medicine or Biophysics from a recognized university or B.Sc. degree with at least 50% marks from a recognized University with Physics and Chemistry as core subjects (Non-Medical stream) or Chemistry and Zoology / Biotechnology as core subjects (Medical stream).

Candidates with B.Sc. degree in X-Ray / Medical Technology, B.Sc. through correspondence and open University stream are not eligible.

M.Sc. (Stem Cell & Tissue Engineering) (Two- Year Course)

Eligibility Conditions

Students securing 50% marks in B.Sc. General/Life Sciences/Basic Medical Science/Engineering (Biotech/Biomedical)/Pharmaceutical Biotechnology/Dentistry/Medical Laboratory Technology are eligible to apply for the admission to M.Sc. in Stem Cell & Tissue Engineering.

Scheme of Test

The Question Paper contains 75 Multiple Choice Questions (MCQs) each with four alternative choices (including one one correct answer). Each question carries 1 mark. Maximum Marks are 75 and Time allowed is 1 hr 30 minutes. **There will be no negative marking.**

M.Sc. (System Biology and Bioinformatics) (Two-Year Course)

Eligibility Conditions

Bachelor's degree in Science (General or Hons.) with Bioinformatics, Biotechnology, Biochemistry, Biology, Botany, Chemistry, Electronics, Genetics, Life Science, Mathematics, Mathematics & Computing, Microbiology, Physics, Statistics, Zoology, Agriculture, Computer Science, Engineering, Medicine, Pharmacy and Veterinary Science with at least 50% marks (45% for candidates belonging to SC/ST/BC/PwD category).

Scheme of Test

The question paper will consists of 75 objective type questions (Multiple choice with four responses i.e. A, B, C & D) carrying a total of 75 marks. The question paper will be of 1 hour 30 minutes duration. The syllabi and standard for the question paper shall be the one as currently prescribed for Bachelor's Degree of Panjab University (1st, 2nd and 3rd Year together).

M. Sc. (Microbial Biotechnology) (Two- Year Course)

Eligibility Conditions

Candidates having Bachelors Degree in any field of Biological Sciences including Biotechnology are eligible.

Scheme of Test

The Entrance Test will be of 1 hour 30 minutes duration. It shall comprise 75 multiple-choice questions (with only one right answer) of one mark each. The questions will be based on fundamentals of Microbiology and Biotechnology.

M. Sc. (Medical Physics) (Two- Year Course)

Eligibility Conditions

Admission to M.Sc. Course in Medical Physics will be B.Sc. (Regular course) first class with Physics as core subject (studied for three Years) and Mathematics as one of the subjects (studied for minimum two Years) from a recognized university. The candidates who studied B.Sc. through correspondence and open university stream are not eligible.

Course duration is 3 Years (2 Years teaching + 1 Year internship).

The Entrance Test for Physics, Physics (Specialization in Electronics) and Medical Physics will be common.

M. Sc. (Forensic Science & Criminology) (Two- Year Course)

B.Sc./ B.Sc. Honours degree in Forensic Science or any other graduation degree 3/4/5 Year duration in the Faculty of Science, Engineering, Medical / Dental and Pharmaceutical Science of Panjab University or any other University recognized by Panjab University with minimum 50% marks.

Admission to M.Sc. Forensic Science & Criminology shall be through P.U.- CET (P.G.) conducted by Panjab University. The admission will be on merit, based upon the marks obtained in PU-CET (P.G.) and marks obtained at undergraduate degree alongwith admissible weightage as per University Rules.

Format for Entrance Test for M.Sc. Forensic Science & Criminology:

The question paper will comprise of <u>Section A</u> and <u>Section B</u> carrying a total of 70 marks. The question paper will be of 90 minutes duration. Section A will have 20 questions of General Sciences at 10+2 level to test the knowledge of fundamentals. Section B will have <u>four sub-sections</u> namely, *Biology, Chemistry, Forensic Science* and *Physics* with 25 questions each from graduation level. The candidate has to select ANY TWO of the four sub-sections from Section B for answering questions.

M. Sc. (Statistics) (Two- Year Course)

B.A./ B.Sc. (General or Honours) with 50% marks in Math/Stat as major subject of Panjab University or any other University recognized by Panjab University as equivalent thereto.

OF

B.A./B.Sc. (General or Honours) under CBCS with 50% marks in GE Math/Stat of Panjab University or any other University recognized by Panjab University as equivalent thereto (as Per UGC/ PU General Guidelines).

Scheme of Test

The Entrance Test will be of 1 hour 30 minutes. It shall comprise of 75 multiple-choice questions (with only one right answer) carrying one mark each. The questions will be based upon two components:

| Component | Number of Questions | | | | |
|-------------|---------------------|--|--|--|--|
| Mathematics | 50 | | | | |
| Statistics | 25 | | | | |

Test will be based on the following topics:

STATISTICS

Probability (upto Bayes'Theorem)One-dimensional random variable, three basic distributions (Binomial, Poisson, Normal).Correlation & Regression (bivariate).Simple Random Sampling.

MATHEMATICS

Matrix theory, Rank and Inverse of matrices, Vectors, Vector spaces, system of linear equations and their solutions, eigen values and eigen vectors, quadratic forms.

Differentiation 7 Integration (Single and double integrals). Limits and Continuity, Complex variables and their functions, De-Movier's Theorem, Cauchy-Riemann Conditions, Cauchy Integral Theorem, Residue Theorem, contour integration. Reduction formulae, Sequences and their limits, Series. Trigonometry, Sets, sequences of sets and their limits. Differential Equations of first orders, Leibnitz's and Clairant differential equations, Linear Differential Equations.

M.Sc. (Two-Year Course) (In colleges only) Bioinformatics, Biotechnology, Botany, Physics, Chemistry, Zoology, System Biology and Bioinformatics

Eligibility for different courses

Bioinformatics / System Biology & Bioinformatics:

Bachelor's degree in Science (General or Hons.) with Bioinformatics, Biotechnology, Biochemistry, Biology, Botany, Chemistry, Electronics, Genetics, Life Science, Mathematics, Mathematics & computing, Microbiology, Physics, Statistics, Zoology, Agriculture, Computer Science, Engineering, Medicine, Pharmacy and Veterinary Science with at least 50% marks (45% for candidates belonging to SC/ST/BC/PwD category).

Biotechnology:

Bachelor's degree (under the 10+2+3 pattern of Education) in Physical, Biological, Pharmaceutical, Agricultural, Veterinary or Fishery Sciences or Bachelor's degree in Engineering/ Technology, Home Science, Medicine (MBBS) from any University/ Institute recognized by the Panjab University. The candidate must have obtained at least 55% marks at the Bachelor's degree level.

Botany:

B.Sc. pass with Botany having at least 50% marks in the aggregate from Panjab University or from any other University recognized by Panjab University Syndicate as equivalent thereto.

Physics:

- a. B. Sc. Hons. examination of the Panjab University in the subject of M. Sc. Course
- b. B. Sc. Examination of the Panjab University or any other University recognized by Syndicate securing at least 50% marks in aggregate (45% marks in case of SC/ST/BC/PwD) and with Physics & Mathematics for M.Sc. Physics Course and with Chemistry & Mathematics for M. Sc. Chemistry course along with anyone of the following subjects:-Biochemistry, Botany, Chemistry, Geology, Physics, Statistics, Zoology

Provided that a student who had not taken Mathematics as one of the subjects in B. Sc. Examination may be admitted to M.Sc. (2-Year Course) in Chemistry on the condition that he / she passes an additional paper in Mathematics (50 hour course) in the first Year examination securing at least 40% marks.

- c. Awarded B.Sc. Pass degree under the old B.Sc. Honours regulations by the Syndicate on the recommendation of the Board of Control:
- d. B.Sc. Honours examination in the subject of the M.Sc. From any other University recognized by the Syndicate as equivalent to (a);

Chemistry:

- a. B.Sc. examination of the Panjab University or any other University recognized by the Syndicate securing at least 50% marks in aggregate and with Chemistry for M.Sc. Chemistry course along with any Science subject.
 - Provided that the student who had not taken Mathematics as one of the subjects in B.Sc. examination may be admitted to M.Sc. (2Year course) in Chemistry on the condition that he/she passes an additional paper in Mathematics in the first Year examination securing at least 40% marks and the student who studied Mathematics as one of the subjects in B.Sc. Examination should pass additional paper in Biology in the first year examination securing at least 40% marks.
- b. B.Sc. Pass Degree under the old B.Sc. Honours regulations awarded by the Syndicate on the recommendation of the Board of Control in the subject of M.Sc. course.
- c. B.Sc. examination with 50 per cent marks in aggregate from any other University recognized by the Syndicate as equivalent to (a).
- d. B.Sc. (Honours) examination of Panjab University or of any other University (recognized as equivalent thereto) in the subject of M.Sc. course.

Zoology:

B.Sc. with Zoology having at least 50% marks in the aggregate from Panjab University or from any other University recognized by the Syndicate as equivalent thereto.

Scheme of Tests for above courses

The scheme of the test for admission to M. Sc. (Two Year Courses) as given above offered at different colleges affiliated to Panjab University will be same as applicable for M. Sc. (Hons.) in the respective subjects except Bioinformatics. The candidates may be admitted to M.Sc. (Hons.) at Panjab University Campus or affiliated colleges on the basis of final merit lists.

For M.Sc. Bioinformatics: The question paper will consists of 75 objective type questions (Multiple choice with four responses i.e. A, B, C & D) carrying a total of 75 marks. The question paper will be of 1 hour 30 minutes duration. The syllabi and standard for the question paper shall be the one as currently prescribed for Bachelor's Degree of Panjab University (1st, 2nd and 3rdYear together).

APPENDIX A

GUIDELINES FOR GENERAL / RESERVED CATEGORY/ ADDITIONAL/NRI SEATS

All these Guidelines in Appendix A, B and C are reproduced from "Handbook of Information". Please see Handbook of Information-2023 for complete information and updates.

IMPORTANT NOTE:

Admission in all categories shall be made subject to fulfilment of the eligibility conditions and in accordance with the provisions contained in the Handbook of Information and Rules for Admission, 2023.

I. Seats: General and Reserved

- 1) 53.5% of the seats in each course shall be treated as belonging to the General Category.
- 2) 46.5% seats shall be treated as belonging to the Reserved Category, as per details given below:
 - (i) 15% for candidates belonging to the Scheduled Castes.
 - (ii) 7.5% for candidates belonging to the Scheduled Tribes.
 - (iii) 5% for candidates belonging to the Backward Classes

Provided that the reservation in (i) and (ii) can be inter-changeable, i.e. if sufficient number of applicants is not available to fill up the seats reserved for Scheduled Tribes, they may be filled up by suitable candidates from Scheduled Castes, and vice versa.

The above reservation shall be subject to the following conditions:

- a. the number of students admitted on merit of General Category shall not be included in the number of seats reserved;
- b. members of Scheduled Castes / Scheduled Tribes/ Backward Classes shall be allowed a concession of 5% marks for admission to the courses in which a certain percentage of minimum marks has been prescribed provided they have obtained minimum pass marks prescribed by the regulations;
- c. in case the seats earmarked for Scheduled Castes/Scheduled Tribes remains unfilled, a further relaxation in marks may be given, in order of merit inter-se amongst the candidates themselves, so that all the reserved seats are filled by candidates belonging to these categories; and
- d. a Scheduled Caste/Scheduled Tribe person on migration from the State of his origin will not lose his status as Scheduled Caste / Scheduled Tribe but he/she will be entitled to the concessions/benefits admissible to the Scheduled Castes / Scheduled Tribes from the State of his origin and not from the State where he has migrated. [Regulation 29.1, P.U. Cal. Vol. 1, 2007 (Page 168)].
- (iv) 5% seats will be horizontally reserved for persons or class of Persons with Disability (PwD)* out of which 1% each shall be reserved for persons suffering from the disabilities specified under the RPWD 2016 Act:

A) Physical Disability

- a. Locomotor disability
 - i) Leprosy cured persons
 - ii) Cerebral palsy
 - iii) Dwarfism
 - iv) Muscular dystrophy
 - v) Acid attack victims
- b. Visual Impairment
 - i) Blindness
 - ii) Low Vision
- c. Hearing Impairment
 - i) Dea
 - ii) Hard of Hearing
- d. Speech and language disability

B) Intellectual disability

- i) Specific learning disabilities
- ii) Autism spectrum disorder

^{*} Claimant in this category should be capable of pursuing the course for which the admission is sought. The Persons with Benchmark Disability (as per section 2 (r) of the Rights of Persons with Disabilities [RPWD] Act 2016 should have a minimum of 40% disability duly certified by the Medical Board of District/State/UT/Medical Institution of National Importance. Such certificate shall be further certified by the Medical Board of the Panjab University Health Centre.

C) Mental behavior (Mental Illness)

D) Disability caused due to

- i. Chronic neurological conditions due to:
 - (i) Multiple sclerosis
 - (ii) Parkinson's disease
- ii. Blood Disorder
 - (i) Haemophilia
 - (ii) Thalassemia
 - (iii) Sickle Cell disease

E) Multiple Disabilities (Deaf Blindness)

F) Any other category as may be notified by the Central Government (the Schedule of RPWD Act 2016).

- a) If 5% of reservation of seats comes to 0.5 to 0.9, it shall be treated as one seat. However, if after calculating seats on the basis of 5%, the number of seats is divisible by 5, equal distribution of seats will be made for all the five categories. If after the division, any remainder is left, it shall be distributed on the basis of inter-se merit amongst all the five categories. If the seats after calculating on the basis of 5% comes to less than 5 it shall be distributed on the basis of inter-se merit amongst all the five categories.
- b) In the absence of availability of candidates in any of the categories, the seats shall be interchanged interse.
- c) If seats reserved for Persons with Bench mark Disabilities remained unfilled, these shall be treated in the sanctioned strength of seats for General Category.

Applicants under the Reserved Category of Persons with Bench mark Disabilities shall be allowed a relaxation of 5% marks for calculation of merit in seeking admission to the courses in which a certain percentage of minimum marks has been specified, provided they have obtained minimum pass marks prescribed by the University regulations.

The candidate under the Reserved Category of Persons with Bench mark Disabilities shall be allowed an upper age relaxation of 5 years for admission, in the courses wherever upper age restriction is applicable. A claimant who fraudulently avails or attempts to avail any benefit meant for persons with benchmark disability shall be punishable with imprisonment for a term which may extend to 2 years or with fine which may extend to one lakh rupees or with both.

- (v) 5% on the basis of achievement in Sports (see separate guidelines available at 58-67).
- (vi) 5% for candidates belonging to Defence (for all the under-mentioned categories taken together) for candidates who fall in one of the following categories (which are given there in order of precedence):-
 - Son/Daughter/ Spouse of such Defence personnel and CAPF personnel whodiedinaction. (Only those who were wholly dependent on such personnel shall be considered).
 - Son/Daughter/Spouse as are wholly dependent on such Defence Personnel and CAPF Personnel who were incapacitated²/died while in service.
 - 3. Defence and CAPF personnel who were incapacitated while in service.
 - 4. Son/daughter/spouse of ex-servicemen³ who are wholly dependent on them.
 - Son/daughter/spouse of serving Defence personnel and CAPF who are wholly dependent on them.
 - Ex-Servicemen
 - Serving Defence personnel CAPF personnel
- CAPFearlierknownasPara-militaryforces,includesAssamRifles(AR),BorderSecurityForce(BSF),
 CentralIndustrialSecurityForce(CISF),CentralReservePoliceForce(CRPF),Indo TibetanBorder Police (ITBP), National Security
 Guard (NSG), Sashastra Seema Bal (SSB) etc.
- 2. Incapacitation will mean incapacitation leading to the discharge of the person by concerned authorities
- Ex-serviceman means a person who has served in any rank whether as a combatant or non-combatant in the regular Army, Navy and Air Force of the Union of India or in CAPF
 - i) Who retired from the service after earning his/her pension; or $% \left(1\right) =\left(1\right) \left(1\right) \left$
 - ii) Who has been boarded out of the service on medical grounds attributable to military service/CAPF or Circumstances beyond his control and awarded medical or other disability pension; or
 - iii) Who has been released from the service as a result of reduction in establishment or
 - iv) Who has been released from the service after completing the specific period of engagement, (otherwise than at his own request, or by way of dismissal, or discharge on account of misconduct or inefficiency) and has been given gratuity. Territorial Army Personnel of the following categories shall also be considered as ex-servicemen:-
 - (a) Pension holders for continuous embodied service.
 - (b) Disabled Territorial Army Personnel with disability attributable to military service.
 - (c) Gallantry award winners

Foradmissiontoeveningcourses,categories2,4and5abovewillnotbeconsideredsincetheterm`whollydependent' will exclude such persons as are `employed' or `self-employed'.

- (vii) 2% for Sons/ Daughters / Husband / Wife / Brothers / Sisters of persons killed/incapacitated in November, 1984 riots and of persons killed / incapacitated in terrorist violence in Punjab and Chandigarh. A Certificate from the District Magistrate to this effect must be submitted by the candidate. Migrant Card alone is not enough.
- (viii) 2% for the Children/Grand Children of Freedom Fighters who have been sanctioned pension by Central/State Govt. or awarded Tamra Patra by Government of India (Syndicate Para 15, dated 30-5-1997) or those who have been certified to be Freedom Fighters by the Central/State Govts.
- (ix) Any other statutory reservation as prescribed by the Govt. of India, if any.

II. Additional Seats(Non –Convertible):-

(a) Wards of Kashmiri Migrants and Kashmiri Pandits/Kashmiri Hindu Families(Non- Migrants) living in Kashmiri Valley.

- (i) Relaxation in cut-off percentage upto 10% Subject to minimum eligibility requirement.
- (ii) Increase in intake capacity upto 5% course wise.
- (iii) Reservation of at least one seat in merit quota in technical/professional institutions.
- (iv) Waiving off domicile requirements.

Documents required:

- A candidate seeking admission against this seat is required to produce a certificate from an authorised Government Officer (i.e. Relief Commissioner / Deputy Commissioner of the concerned district / area) to the effect that the candidate is a ward of Kashmiri displaced person.
- Proof of current residence (such as Ration Card/ Photo Identity Card issued by the Election Commissioner / Driving License / Aadhaar Card / Passport etc.)
- The admission of a candidate against this category shall be provisional subject to verification of his / her above mentioned certificates by the competent authority.

(b) Wards of Martyrs/permanent disabled of Kargil War

Concession be given for admission to various courses in Educational Institutions only to those wards of martyrs/permanent disabled (up to 80% leading to incapacitation) of Kargil war who have a valid certificate from the Ministry of Defence to this effect and the same be entered in the pension Book of the family:

- 1. 1% seats with minimum of 1 seat in the Departments and affiliated Colleges except in partially financed/self-financing courses.
- 2. Exemption in fee.
- 3. Exemption in hostel fee.

(c) One Girl Child out of the only two girl Children

- 1. Two additional seats per unit per course subject to maximum limit of four (4)out of the two girl children from the session 2015-16 are created for admission to a given course in the Panjab University Teaching Departments, Regional Centres and its affiliated Colleges provided they are otherwise eligible from all angles. The additional seats will be only for those girl Children who are either a single girl child of her parents or one amongst the only two girl Children with no male Child. The additional seat will be available to only one of the two girl children of a couple.
- 2. A certificate is to be obtained from the parents of the girl children declaring therein that the benefit of this scheme is being claimed for only One Girl Child out of the two girl Children and the parent shall not claim the same for the 2nd girl child elsewhere in future the specimen of the certificate is enclosed.

(d) Cancer/ AIDS / Thalassemia:

One additional seat each for the student suffers from Cancer / AIDS / Thalassemia has been allowed for admission in each course in the Panjab University Teaching Departments, Regional Centres and its affiliated Colleges subject to the condition that the candidate seeking admission under each of these categories if otherwise eligible from all angles. The claimant candidate will have to submit a certificate as a proof of from the National Medical Institute like PGI, AIIMS etc. in support of his/her claim.

(e) Two Additional Seats for Rural Area Students

Only those candidates will be considered in this category, who have passed their Matriculation and +2 examination from those rural schools that do not fall in the area of the Municipal Corporation/Municipal Committee/ Small Town/Notified Area/Cantonment Area. A candidate claiming such benefit will have to produce a certificate from the D.E.O./Principal of the concerned institute of the area certifying that the school from where the candidate has passed the Matriculation and +2 examination, falls within the aforesaid rural area.

(f) One Additional seat for Border Area Students

The Border area students shall mean those candidates who have passed their Matriculation from a School situated in Border Area and +2 from a School situated in any other area. A candidate claiming such benefit will have to produce a certificate from the Tehsildar or the Principal/Headmaster/Head of the School certifying that the School from where the candidate has passed the matriculation, falls within the aforesaid rural area.

(g) One Additional Seat for Youth Festival

In all the teaching courses (except the courses governed by AICTE / NCTE / BCI / MCI / DCI etc.) being run in the Panjab University Campus including constituent colleges / regional centres / affiliated colleges, one additional seat is reserved per unit for those candidates who have excelled and outperformed by their participation in the Youth Festivals. The candidate availing the aforesaid facility must fulfill the eligibility condition for admission to the particular course. For those courses to which the admission is to be done on the basis of entrance test, the candidate must have passed the entrance test. The selection of such candidates for admission to various courses at PU Campus/ regional centres / constituent colleges / affiliated colleges, will be made by the respective admission committees. For recommending admission on the basis of youth festival participation, admission criterion will be fixed on the basis of merit as mentioned below and upon the verification of the original certificates of those candidate, who:

- (A) have presented an item in an international cultural festival approved by Punjab Govt. /Govt. of India / Panjab University.
- (B) have got distinction in All India National Inter University Youth Festival organized by AIU / Govt. of India
- (C) have got distinction in North Zone Inter University Youth Festival organized by AIU.
- (D) have secured first/second/third position in Inter University Youth Festival organized by Govt. of Punjab/ any State or Central University.
- (E) have secured first/second / third position in Panjab University Inter Zonal Festival.
- (F) have secured first /second /third position in Panjab University Zonal festival
- (G) have secured first/second/ third position in state level competition of State School Education Board of Punjab/ Haryana / HP/ or CBSE/ICSE or any other recognised board
- Category A is considered as highest category followed by B, C onwards.
- Preference will be given to the candidate who represented Panjab University Chandigarh in A, B, C and D category
- Achievement(s) only during the preceding 3 years of the year of the admission will be considered
 - In case two or more candidate have equal position at equal level then :
 - i. Position secured in an individual item shall be rated higher as compared to as a team.
 - ii. The eligibility of the candidate for participation in university youth festivals, in future, may also be considered.
- iii. Academic record may be considered in case of tie between two or more candidate.

In case of any ambiguity, the related certificates be got verified from the Department of Youth Welfare through the concerned Chairperson / Principal / Head etc.

The candidate admitted on the basis of youth festival additional quota seats shall have to give an assurance to the university authorities that during the duration of the course the candidate will participate in the activities associated with his item and will not create any kind of indiscipline. The admission committee will assess the participation of the candidate and in case the candidate does not fulfill the requirements, his admission may be cancelled. However, exemption can be given because of a special reason like sickness or any other unavoidable reason in inter varisty Youth Festivals, National Festivals and International Festivals.

(h) Categorization of International/NRI Students*

A foreign national may seek admission in any of the courses being offered by the University through the International Students Office under any of the following categories-

- i) Candidates with nomination /sponsorship by any foreign State, Embassy or authority in India under a Study in India /Exchange Programme, etc.
- ii) Foreign nationals or their wards who are self-financed students (not seeking admission through a mode as mentioned in (i) above).
- iii) Non-resident Indians or their Wards (not seeking admission through a mode as mentioned in (i) above). The definition of the terms, "Foreign Nationals, Non-resident Indians and Wards" be considered as under:-
- 1. Foreign Nationals: Foreign Nationals holding passports issued by foreign countries including people of Indian origin who have acquired the nationality of foreign countries are included as foreign students. Provided any subsequent changes in the definition as may be notified by the Government of India shall have the same latest meaning respectively assigned to them. The other expressions not defined herein shall have the meaning as may be assigned in any subsequent notification of the Government of India.
- 2. Non-resident Indians: A person shall be deemed to be Non-resident Indian for seeking admission in Panjab University if she/he fulfils the criterion (as amended from time to time) for status of NRI under Income Tax Act, 1961, in the year in which he/she seeks admission in Panjab University.

 As per Income Tax Act, 1961 the present criterion for determination of status of NRI is as follows:-

'Non-resident Indian' is an individual who is a citizen of India or a person of Indian origin and who is not a resident of India. Thus, in order to determine whether an Individual is a non-resident Indian or not, his residential status is required to be determined under Section 6. As per Section 6 of the Income-tax Act, an individual is said to be non-resident in India if he is not a resident in India and an individual is deemed to be resident in India in any previous year if he satisfies any of the following conditions:-

- (i) If he is in India for a period of 182 days or more during the previous year; or
- (ii) If he is in India for a period of 60 days or more during the previous year and 365 days or more during 4 years immediately preceding the previous year.

However, condition No. (ii) does not apply where an individual being citizen of India or a person of Indian origin, who being outside India, comes on a visit to India during the previous year.

^{*} Subject to the approval of the Competent Authority.

A person shall be deemed to be of Indian origin if he, or either of his parents or any of his parents or any of his grand-parents, was born in undivided India.

3. Wards of Foreign Nationals and NRIs:

A student who seeks admission as a ward of Foreign National or Non-resident Indian should be in a first degree / blood relationship with foreign national or Non-resident Indian. The term first degree /blood relationship includes

- (a) spouse
- (b) children (natural/adopted/foster)
- (c) real brother and sister of father i.e. real uncle and real aunt
- (d) real brother and sister of mother i.e. real maternal uncle and maternal aunt
- (e) father and mother of father i.e. grand-father and grand-mother
- (f) father and mother of mother i.e. maternal grand-father and maternal grand-mother
- (g) first degree-paternal and maternal cousins.

Eligibility and Admission Criterion:

- (i) The students who will be admitted against the Foreign National/NRI quota should have the basic qualification fixed by the Medical Council/Dental Council/Bar Council of India/Pharmacy Council of India for admission in Medical / Dental / Law graduate / post graduate courses. The Rules of respective Regulatory Bodies shall apply as amended from time to time.
- (ii) The candidates seeking admission to any course must meet the eligibility criteria of that particular course as mentioned on the website of respective department/Handbook of Information of Panjab University.
- (iii) The International students from Non-English Speaking Countries are required to submit a certificate of IELTS Academic score (atleast Band 5) or TOEFL score (atleast 60).
- (iv) The candidates seeking admission to Post graduate courses are required to produce the certificate of Graduate Record Examination (General) or GMAT score.
- (v) Admission to all Engineering courses against NRI quota in the University Institute of Engineering & Technology (UIET), University Institute of Chemical Engineering & Technology (UICET) and P.U. Regional Centre, Hoshiarpur shall also be admissible through Direct Admissions Students Abroad (DASA) w.e.f. the academic session 2018-2019.

(vi) For admission University School of open learning USOL:

Foreign Nationals working in the foreign missions in India and their dependents residing with them, subject to the condition that before submitting their Admission cum Examination Form, they are required to obtain Eligibility Certificate from the Registrar, Panjab University. Foreign students who have passed B.A./B.Com Part-I Examination from this University, shall be allowed to complete the remaining parts of these integrated courses through USOL even while staying in their respective countries, subject to the number of chances available in the respective examinations as provided in the Regulations.

- (vii) The candidates shall compete amongst themselves for admission to various courses. For PG courses, their inter-se merit shall be determined on the basis of the score obtained in GRE/GMAT.
- (viii) A candidate once admitted as NRI candidate in an under graduate course shall be covered under the definition of NRI for subsequent admission to any course at Panjab University.
- (ix) Candidates who take admission under the NRI quota and are promoted from Undergraduate to Postgraduate course in the Hons. School framework (ongoing program) shall not be allowed to change their category.
- (x) A candidate admitted under NRI quota may change his/her admission to a vacant seat provided the candidate falls within the merit of admitted candidates in General or Reserve Category.
- (xi) NRI candidates shall have to comply with any other requirements prescribed by the Govt. of India and Panjab University from time to time.
- (xii) For admission to B.P.Ed. and M.P.Ed. (Physical Education), a candidate will be required to undergo mandatory Physical Efficiency Test. The scores of Physical Efficiency Test will be counted for determining merit.
- (xiii) The Foreign Nationals and NRI candidates shall provide the following certificates /documents:
 - a. The Foreign Nationals and NRI students wishing to join any of the University Teaching Departments Panjab University for the first time are required to obtain an eligibility certificate from the *Deputy Registrar (General), Panjab University, Chandigarh* or Academic certificates of passing the qualifying or equivalent examination approved by the Association of Indian Universities (AIU)/Common wealth Universities/International Association of Universities (IAU) as equivalent to the corresponding Indian Degrees/Certificates.
 - b. Test Score of GRE/GMAT/TOEFL/IELTS etc.
 - c. The foreign students admitted are required to fill up Foreign Student Information System (FSIS) Form complete in all respects, along with copies of passport and Visa and submit to the office of Dean International Students, Panjab University, Chandigarh. This form is an urgent requirement of the Foreign Registration Office (FRO), Sector-9, Chandigarh and the candidate has to report to the Foreign Registration Office (FRO) within fourteen days of arrival in Chandigarh, with the number generated after the online submission of this form.

Foreign Students Information System (FSIS) is to be submitted by hand by the candidate and the FSIS No. will be issued by this Office personally to the students

d. Foreign Students Welfare Fee @ Rs.1500/- per student. Each NRI/Foreign Student is required to submit the same in cash, which may be deposited with the 'Extension Counter, State Bank of India, Administrative Block, Panjab University, Chandigarh. Original Receipts of the fee deposited is to be submitted to the office of the Dean International Students along with Registration Form (To be submitted after Confirmation of Admission).

- (xiv) The seats of Foreign Nationals and NRI are "Inter-Changeable". That is, if sufficient number of eligible candidates are not available to fill up the seats of NRI, seats may be filled up from among the eligible candidates belonging to Foreign Nationals, and vice-versa. The conversion of seats shall be done after second counselling for NRI /Foreign National or after exhausting the waiting list of NRI/Foreign Nationals.
 - In case, the number of eligible Foreign Nationals seeking admission exceeds the number of seats available, the Vice-Chancellor, Panjab University may be authorized to sanction additional seats to the Foreign Nationals only.
- (xv) Candidates belonging to NRI (for all the under mentioned categories taken together) who fall in one of the following categories (which are given here in order of precedence):
 - 1. NRI candidates:
 - 2. Wards of NRI candidates;
 - NRI candidates who have not appeared in the entrance Test. In case of regulatory body, if permitted by the said regulatory body;
 - 4. Wards of NRI candidates who have not appeared in the entrance Test. In case of regulatory body, if permitted by the said regulatory body;
- (xvi) Foreign Nationals/NRI candidates seeking admission to the concerned course are required to compete amongst themselves for the seats for them by appearing in the Entrance Test (wherever applicable) if they are in India. However, those living abroad at the time of entrance test will be exempted from the entrance test.

NOTE:

Specimen of forms of certificates to be attached to admission forms wherever applicable has been provided in the prospectus (pp. 33-52)

While working out the percentage of seats in the reserved categories, if the number arrived at contains a fraction, this shall be resolved as follows:

If the fraction is 0.5 or more, it shall be rounded off to 1; if it is less than 0.5, it shall be ignored. This shall, however, not affect the total number of seats in the open category. To ensure this, if the total number of seats after making this adjustment exceeds the prescribed number fixed for the course, the necessary additional seats shall be created with the prior permission of the D.U.I./Vice-Chancellor. Such seats, if created, shall be treated as additional only for the year in question.

Illustration: In a course which has 35 seats, the distribution of seats among the various categories will be as under:

| General | SC | ST | ВС | Sports | Defence | Persons with Disability | Riot/Terrorist Victim | Freedom Fighter | Total |
|---------|-----|------|----|--------|---------|----------------------------|--------------------------|--------------------|-------|
| 53.5% | 15% | 7.5% | 5% | 5% | 5% | 5% | 2% | 2% | _ |
| 19 | 5 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 37 |

It will be seen that this raises the total number of seats to 37. The 36th and 37th seat will be treated as additional in that course for that year only. The additional seat, if required to be created, shall be created only for the reserved category and not for the Open category. Such additional seat, if remains unfilled, will not be converted to open category.

Inter-Changeability and transfer of seats

- a) In the Reserved categories given at (i) and (ii) under Paragraph I (Seats: General and Reserved at Page 27), i.e. Scheduled Castes and Scheduled Tribes, the seats shall be regarded as 'interchangeable'. That is to say, if sufficient number of eligible candidates are not available to fill up the seats reserved for Scheduled Tribes, seats may be filled up from among the eligible candidates belonging to Scheduled Castes and viceversa.
- b) The seats in the Reserved Categories (SC/ST/BC/SP/Def/PwD/TV/FF) which remain unfilled shall be transferred to the General Category subject to the condition that the waiting list of each Reserved Category has been exhausted. Any seat created in the Reserved Categories because of rounding off fraction shall stand cancelled and shall not be converted to General Category.
 - **Note:** The Departments where admission is based on Entrance Test/ Aptitude Test, seats in reserved categories be converted in the General Category right from the beginning of admission in case there were no candidate belonging to these categories having qualified the Entrance Test were available.
- C) If a candidate gets admitted under Reserved Category and is also placed on the consolidated waiting list of General Category and gets a General Category seat on merit, the seat shall be offered to him/her (subject to the condition that the candidate of SC/ST/BC/PwD categories fulfill the minimum eligibility requirement of General Category and must not have availed of relaxation in eligibility marks) and his/her Reserved Category seat shall fall vacant and shall be offered in order of merit to the next candidate of the Reserved Category.

APPENDIX B

<u>Specimen of Certificates for reserved categories and additional seats (To be attached to admission form wherever applicable)</u>

SUB APPENDIX B1 SCHEDULED CASTE / SCHEDULED TRIBE CERTIFICATE

The Caste/Tribe Certificate should necessarily contain the following information about:

| (a) | Name of the person : |
|-----|---|
| (b) | Father's name : |
| (c) | Permanent place of residence : |
| (d) | Name of the Caste/ Tribe : |
| (e) | Constitutional order under which the caste/ tribe has been notified |

Signature of issuing authority along with the designation, seals and date

Authorities Empowered to issue SC/ST certificate

(f)

- District Magistrate/ Additional District Magistrate/ Collector/Deputy Commissioner/ Additional Deputy Commissioner/ Deputy Collector/1st Class Stipendiary Magistrate/ Sub-Divisional Magistrate/ Taluka Magistrate/ Executive Magistrate/ Extra Assistant Commissioner.
- 2. Chief Presidency Magistrate/ Additional Chief Presidency Magistrate/ Presidency Magistrate.
- 3. Revenue Officer not below the rank of Tehsildar.
- 4. Sub-Divisional Officer of the area where the candidate and/or his/her family normally resides.
- **5.** Administrator/ Secretary to Administrator/ Development Officer (Lakshdweep Islands)

Attach Applicants Recent Passport Size Attested Photograph

SUB APPENDIX B2

CERTIFICATE FOR BACKWARD CLASS*
(Persons belonging to OBC/SBC will not be considered under this category)

| This is to certify that Shri / Smt | | | • | | | | | | • |
|--|--|---------------------------------|-------------|-------------|----------|-----------|------------|----------|------|
| | Distric | t / Divisio | on | | | i | n the | state | of |
| belongs to | community | which is | recogni | zed as | a Back | ward Cla | ass un | ıder | |
| the, | | | | | | | | | No. |
| | | | | | | | | | |
| and / or his / her family ordinarily residuate | | | | | | | | | |
| This is also to certify that he/she does | s not belong to the po | ersons / sec | tions (crea | my Lay | er) mei | ntioned | in the co | olumn : | 3 of |
| the Schedule to the Government of | Punjab, Department | t of Welfare | and SCs | and B | Cs noti | fication | No. 1/4 | 1/93-F | RCI/ |
| dated 17-01-1994, as amended vide | e Notification No. 1/ | /41/93-RCI/1 | 597 dated | 17-08 | -2005. | Notifica | ation No. | . 1/41/ | /93- |
| RCI/209 dated 24-02-2009 and notific | | | | | , | | | | |
| Tionzoo dated 24-02-2005 and notific | ,anon 140. 1/41/33-110 | oi/oos dated | 24.10.20 | 10. | | | | | |
| | | | | | | | | | |
| Date of Issuance | | Signature of Issuing Authority: | | | | | | | |
| | | | Docionat | Designation | | | | | |
| Space for Photograph | | Date: | | | | | | | |
| | Place: | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Note: The term "Ordinarily" used here | e will have same mea | aning as in S | ection 20 | of Repr | esenta | tive of F | People A | ct, 195 | 0 |
| Authorities Empowered to issue | Criteria for Admis | sion under | this Cate | gory | | | · | | |
| Backward Class Certificate | 1 50/ 0 1 5 | 1.6 | | | | | | | |
| Deputy Commissioner Additional Deputy | 5% Seats Res Candidate mu | | | | | | , the late | ct rulo | c of |
| Commissioner | Govt. Of India | | non-crear | ily layei | as ue | illeu by | ine late | St Tule: | 5 01 |
| Sub Divisional Magistrate | 3. * A BC Certific | | oy a comp | etent au | uthority | in any | format a | nd on | any |
| Executive Magistrate | date shall be | | | | • | • | | | , |
| 5. Tehsildar | 4. Candidate w | | | | | | | | of |
| 6. Naib Tehsildar | issue must s | ubmit the s | elf declara | ation as | s per S | ub App | endix B | 2(A). | |
| 7. Block Officer | | | | | | | | | |
| 8. District Revenue Officer | | | | | | | | | |

SUB APPENDIX B2 (A)

Self declaration Performa to be submitted by the person belonging to backward class category at the time of recruitment / admission

| I | | | S/O, | D/O |
|--|---------------------|-------------|-------------------|--------------|
| | | Reside | nt | of |
| | Village | / | Tehsil/ | City |
| District | | | hereby decl | are that I |
| belong to | | | caste and | d this caste |
| has been declared as backward class by State Government | ent as per lette | r No | | dated |
| I hereby declare that, I do not come under Column-3 of the Welfare of SCs and BCs notification No. 1/41/93-RC-1/459 da RCI/1597 dated 17-08-1005, notification No. 1/41/93-RCI/209 dated 24.10.2013. | ited 17.01.94 as | amended vi | de notification N | No. 1/41/93- |
| Discour | | | | Declarant |
| Place: Date: | | | | |
| Verification: | | | | |
| I hereby declare that the above submitted information is co concealed herein. I am well versed with the facts that I would be my above information is found to be false and the benefits grant | e liable to face an | y punishmer | nt prescribed by | |
| | | | | Declarant |
| Place: Date: | | | | |

SUB APPENDIX B 3 CERTIFICATE FOR ONLY GIRL CHILD/ ONE OUT OF TWO GIRL CHILDREN

| l / W | e,(father) | and(mo | ther) of Miss | (full address to be |
|-----------------|--|---|--------------------|------------------------------------|
| given) | resident of House No | Street/S | Sector | Town / |
| City/ \ | Village | District/State | | do hereby solemnly declare |
| and af | firm as under:- | | | |
| 1. | That I am / we are citizens o | f India. | | |
| 2. | That Miss | born on | is our girl child. | |
| 3. | That we have no male child. | | | |
| 4. | That we have the following of | nly two girls and none els | se: | |
| (i) | Name | (i) Name | | |
| (ii) | Date of Birth | (ii) Date of Bi | rth | |
| 5. | That none of the above men in this University/Institute inc | | | nefit granted under this category, |
| Sig | gnature | | | |
| (Fa | ather) | | Signature | 9 |
| (| | | (Mother) | |
| Place: Dated | | | | |
| On *Cl i) | : Who can apply under this ca Single Girl Child OR e Girl Child out of only Two G larification: This Seat shall not Those having three or more g Those having any male | irl Children*. be available for:- irl children. | | |

SUB APPENDIX B4 CERTIFICATE FOR ADMISSION UNDER DEFENCE CATEGORY

| Dispatch No. | | | | | | Dated | | | | |
|--------------|-------------------------------|---|---------------|------------------|----------------|-------------------------|----------|----------------|-------|-----------------------|
| Се | rtified | that | | | | son/d | aught | aughter/spouse | | 0 |
| | | Rank | (if | applicable) | an course(s | applicar | it in | for the | | ssion to departmen |
| of_ | | Pan | ab University | , is | _course(s | •) | "" | tile | | departmen |
| 1. | Son/Daugh on considered | nter/Spouse of such Defence during during | | | | | | | | |
| 2. | • | nter/Spouse who is wholly de while in serv | | uch Defence a | nd CAPF | personne | l who | were ii | псара | citated/died |
| 3. | Defence ar | nd CAPF personnel who were | incapacitate | d while in servi | ce. | | | | | |
| 4. | Son/daugh | ter/spouse of ex-servicemen | who are whol | ly dependent o | n them. | | | | | |
| 5. | Son/daugh | ter/spouse of serving Defenc | e personnel a | and CAPF who | are wholly | / depende | ent on | them. | | |
| 6. | Ex-service | men. | | | | | | | | |
| 7. | Serving De | efence personnel and CAPF p | ersonnel. | | | | | | | |
| | me of the C | Certifying Officer | | | C | Signature entral Arn | ned P | | | |

^{*} CAPF earlier known as Para-military forces, includes Assam Rifles (AR), Border Security Force (BSF), Central Industrial Security Force (CISF), Central Reserve Police Force (CRPF), Indo Tibetan Border Police (ITBP), National Security Guard (NSG), Sashastra Seema Bal (SSB) etc.

SUB APPENDIX B5

CERTIFICATE FROM THE CANDIDATE FROM BORDER AREA SCHOOL*

| No. | | | | | Dated: | | |
|-----------------|------------|--------------------------------------|-----------------|-----------|------------------------------------|--------|-----|
| Certified | that | Mr./Ms | | and Sm | daughter t. | reside | |
| | | at Mr. / Ms pol as given below :- | | | ne institution(s | | |
| 1 | Name of Sc | hool | Date of joining | | Date of leavi | ng | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 1 | | | | | | | |
| | | | | | | | |
| Place: Date: | | | | (Tehsilda | Seal and Sig ar / Principal / I | | er) |
| | | | | | | | |

^{*} This certificate is only for those students, who have passed their Matric from Border Area School (s).

SUB APPENDIX B6 CERTIFICATE FROM THE CANDIDATE FROM RURAL AREA SCHOOL*

| No. | | Dated: | | | | | |
|---|--------------|-------------------|---------------------|---------------------|--|--|--|
| Certified that Mr./Msreside and +2 examination from Rur | nt of | _son/ daughter of | Sh has passed the m | and Smt. | | | |
| Committee / Small Town / Notifi | | | | | | | |
| Name of School | Class Passed | Date of joining | Date of leaving | | | | |
| 1 | | | | _ | | | |
| 2. | | | | _ | | | |
| 3 | | | | _ | | | |
| 4 | | | | | | | |
| | | | | | | | |
| Place: | | | | Seal and Signature | | | |
| Date: | | | | (D.E.O / Principal) | | | |
| | | | | | | | |

^{*} This Certificate is only for those students, who have passed their Matric and +2 Examinations from Rural Area School (s).

SUB APPENDIX B7

CERTIFICATE OF CHILDREN/GRANDCHILDREN OF FREEDOM FIGHTER

| Despatch | n No: | | _ | | | Dated:_ | | | | |
|-----------------|---------|------------------|------------------|---------------|---------------|----------------|---------------|---------|------------|------|
| Certified | that | Mr./Ms./Mx | | | | _ (freedon | n fighter) | son | /daughter | 0 |
| Shri | | | of | Village | | Post Offic | ce | | Т | ehsi |
| | | District _ | | and | Parent | /Grand | Parent | of | Mr./Ms. | ./Mx |
| | | | (Name of the Can | didate), a bo | nafide politi | cal sufferer | and has be | en dra | awing free | dom |
| fighter's p | oensior | from | Treasury or | has been aw | arded Tama | ar Patra for I | nis/her polit | ical su | iffering. | |
| Place: Date: | | | | | | | | | | |
| | *Depu | ity Commissioner | | | (with | n Seal of the | e Court) | | | |

Certificate from no other than Deputy Commissioner will be accepted.
In case the certificate is found to be false or incorrect, the candidate will be render himself/ herself liable for criminal prosecution.

APPENDIX C

Specimen of Forms/ certificates for Medical records FORMAT FOR MEDICAL RECORD

| Name of the patient: |
|---|
| Age: |
| Sex: |
| Address: |
| Occupation: |
| Date of 1 st visit: |
| Clinical note (summary) of the case: |
| Prov.: Diagnosis : |
| Investigations advised with reports: |
| Diagnosis after Investigation: |
| Advice: |
| Follow up |
| Date: |
| Observations: |
| Signature in full |
| Name of Treating Physician (MBBS or above with Mobile #) |

Important Note:- Under this category of Physically Challenged, persons only with Permanent Physical Disability (PPD) will be considered. Candidates with temporary physical disability will not be eligible for applying under this category.

Medical Examination Form

| (The | Medical Examination will be conducted by any Govt. | Gazatted Officer/Medical Officer of be filled in by the candidate | at BGJIH) | |
|-------|--|---|------------------------------|------------------------------|
| 1. | Name of the candidate | | | |
| 2. | Father's Name | | | |
| 3. | Mother's Name | | | |
| 4. | Date of Birth | | | |
| 5. | Department (in which admission is being sought) | | | |
| 6. | University Receipt for Medical Examination Fee | | | |
| 7. | No Date Roll No. (allotted by the Department): | Rs | | |
| 7. | Holl No. (allotted by the Department): | | | |
| 8. | History of any previous or existing illness: Yes/No (If | | | |
| | I. Like Epilepsy (seizures), Hypertension, Brond | | | V = = /N = |
| | Tuberculosis, Rheumatic Heart Disease, Diab II. History of any operation/Surgery | eties etc | : | Yes/No Yes/No |
| | III. History of any regular medication | | : | Yes/No |
| | IV. History of any kind of allergy | | : | Yes/No |
| | | | | |
| (Siar | nature of the candidate to be | (Signature of the candidate in | - the | |
| | sted by the chairman) | presence of the examining Do | | |
| | | | | |
| | | (Signat | ture of the chairn of the | nan with seal department) |
| Med | ical Examination | | | |
| | a) Pulse/min. Blood Press | suremmHg (sitt | ing) | |
| | b) Vision (without glasses) Right c) Vision (with glasses) Right | Left Colour Vi | ision | _ |
| | c) Vision (with glasses) Right | Left | | |
| | A. Systemic Examination of CNS/Chest/CVS/Abdo | | | |
| | B. Recommendation of the examining physician if | any | | |

(Signature of the Medical Officer with seal and date)

FORM OF CERTIFICATE RECOMMENDED FOR LEAVE OR EXTENSION OR **COMMUNICATION OF LEAVE AND FOR FITNESS**

| Signature of patient Or thumb impression | | |
|---|--|---|
| To be filled in by the applicant in qualifications-MBBS or above) | n the presence of the Government Medical Attendant or Medical Practitioner. (with | |
| ldentification marks:- a b | | |
| I, Drperiod of absence from duty of | | а |
| for the restoration of his health. I, Dr | after careful examination of the case certify hereby that on restoration of health is now fit of join service. | t |
| | _ Of restoration of fleatiths flow iit of join service. | |

Signature of Medical attendant Registration No._____(MBBS or above with Mobile #)

Note:- The nature and probable duration of the illness should also be specified. This certificate must be accompanied by a brief resume of the case giving the nature of the illness, its symptoms, causes and duration

COPY OF CERTIFICATE OF PERSONS WITH DISABILITY (PwD) CATEGORY FOR APPLYING FOR ADMISSION

(Detailed information is available at Ministry of Social Justice and Empowerment, Government of India website: www.socialjustice.nic.in as per PART-II Section 3, subsection (i) Notification as amended on 30th December, 2009 for persons with disability (Equal Opportunities and full participation Rules, 1996) (Copies of Form-I, Form-III and Form-IV, attached).

Form-I

APPLICATION FOR OBTAINING DISABILITY CERTIFICATE BY PERSONS WITH DISABILITIES

| 1. | Name: (Surname)(First name) | |
|------|--|---|
| ^ | (Middle name) | |
| 2. | Father's name: Mother's name: | |
| 3. | Date of Birth: (date)/ (month)/ (year) | |
| 4. | Age at the time of application:years | |
| 5. | Sex: Male/Female/Transgender | |
| | Address: | |
| (a) | Permanent address | |
| (b) | Current Address (i.e. for communication) | |
| | | |
| (c) | Period since when residing at current address | |
| 7 F | Educational Status (Pl. tick as applicable) | |
| | ost Graduate | |
| | Graduate | |
| | Diploma | |
| IV. | Higher Secondary | |
| | High School | |
| | Middle | |
| | Primary | |
| | . Non-literate | |
| 8. | Occupation (ii) (ii) | |
| 9. | | |
| | Nature of disability: | |
| 11. | Period since when disabled: From Birth/Since year | |
| 12. | (i) Did you ever apply for issue of a disability certificate in the (ii) If yes, details: | pastYES/NO |
| | Authority to whom and district in which applied | |
| | | |
| 13. | Besult of application Bes | If yes, please enclose a true copy. |
| ma | claration: I hereby declare that all particulars stated above ar- lerial information has been concealed or misstated. I furtl lication, I shall be liable to forfeiture of any benefits derived an | ner, state that if any inaccuracy is detected in the |
| | | (Signature or left thumb impression of person with disability, or of his/her legal guardian in case of persons with mental retardation, autism, cerebral palsy and multiple disabilities) |
| Dat | | , , , , , , |
| Pla | | |
| Eng | ··· | |
| 1. F | Proof of residence (Please tick as applicable) | |
| | a. ration card,b. voter identity card, | |

c. driving license,d. bank passbook,e. PAN card,f. Passport,

- g. Telephone, electricity, water and any other utility bill indicating the address of the Parent / Guardian.
 h. A certificate of residence issued by a Panchayat, municipality, cantonment board, any gazette officer, or the concerned Patwari or Head Master of a Govt. school,
 i. In case of an inmate of a residential institution for persons with disabilities, destitute, mentally ill, etc., a certificate of residence from the head of such institution.
 Two recent passport size photographs

| 4. Two recent pa | assport size priotographs | | |
|------------------|---------------------------|-----------------------|--------------------------------|
| | | (For office use only) | |
| Date: | | | |
| Place: | | | Signature of issuing authority |

Form-II

Disability Certificate (In cases of amputation or complete permanent paralysis of limbs Or dwarfism and in case of blindness)

(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)

Recent PP Size Attested Photograph (showing face only of the person with disability

| Certificate No | | | | Date: | | | | |
|--|---|------------------------|---------------------|----------|----------------------------|-------------------------------------|-------------------------------|--|
| This is to certify that I have care Shri | permanent | resident | ot | | House | No. | e/daughter of Registration | |
| Ward/Village/Street, who | se nhotograph is a | Post ffixed above a | Office_ and am s | atisfied | I that: | District | , | |
| (B) He/she is a case of: • locomotor disability • dwarfism • blindness | oo photograpii lo a | minod abovo, c | and anno | allonoo | · tricat | | | |
| (Please tick as applicable) | | | | | | | | |
| (B) the diagnosis in his/her (C) He/She has | _ % (in figure) n relation to his he ue of the guideline: | er s to be specifie | (ed). | part of | words) perm body) as pe | anent locomot er guidelines (| or disability / | |
| Nature of Document | Date of Issue | Deta | ils of au | thority | issuing cei | rtificate | | |
| | | | | | | | | |
| Signature /Thumb impression of the person in whose favour disability certificate is issued | | | | Sig | | seal of Authoris of Notified Med | | |

Form-III Disability Certificate

(In case of multiple disabilities)

Recent PP Size
Attested
Photograph
(showing face only
of the person with
disability

(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)

| Certifica | te No. | Date: | | |
|------------------|---|--------------------------|------------------|--|
| This is to | o certify that we have carefully exami | ned Shri/Smt /Kum | | son/wife/daughter |
| of Shri | Date of | Birth (DD/MM/YY) | Age | years, male/female, Registration |
| No | permane | | | |
| | Ward/Village/Street | Post C | Office | , District , |
| State | , whose photograp | h is affixed above, a | nd are satisfie | ed that: |
| (A) | | Number and da | ate of issue o | ohysical impairment/disability has been f the guidelines to be specified) for the the table below: |
| Sr. No. | Disability | Affected Part of Body | Diagnosis | Permanent physical impairment/mental disability (in %) |
| 1. | Locomotor disability | @ | | |
| 2. | Muscular Dystrophy | | | |
| 3. | Leprosy Cured | | | |
| 4. | Dwarfism | | | |
| 5. | Cerebral Palsy | | | |
| 6. | Acid attack Victim | | | |
| 7. | Low vision | # | | |
| 8. | Blindness | Both Eyes | | |
| 9. | Deaf | £ | | |
| 10. | Hard of Hearing | | | |
| 11 | Speech and language disability | | | |
| 12 | Intellectual disability | Х | | |
| 13 | | | | |
| | Specific Learning Disability | | | |
| 14 | Autism Spectrum Disability | | | |
| 15 | Mental-illness | Х | | |
| 16 | Chronic Neurological conditions | | | |
| 17 | Multiple selerosis | | | |
| 18 | Parkinson's disease | | | |
| 19 20 | Haemophlia Thalassemia | | | |
| 21 | Sickle Cell disease | | | |
| | Sickle Cell disease | | | |
| | (B) In the Light of the abo (number and date of issue | | | physical impairment as per guidelines d), is as follows |
| In words | s: | perc | ent | |
| 2. This | condition is progressive/non-progress | sive/likely to improve | /not likely to i | mprove. |
| 3. Reas | ssessment of disability is: | | | |
| (i) Or | not necessary. | | | |
| (ii) be valid | is recommended/aftertill (DD / MM /YY) | years | mo | onths, and therefore, this certificate shall |
| # - e.g. S | Left/Right/both arms/legs Single eye/both eyes Left/Right/both ears | | | |

4. The applicant has submitted the following document as proof of residence:-

| Nature of Document | Date of Issue | Details of authority issuing certificate | | | | | |
|--|---------------|--|--|--|--|--|--|
| | | | | | | | |
| 5. Signature and seal of the Medical Authority | | | | | | | |
| | | | | | | | |
| Nature of Document | Date of Issue | Details of authority issuing certificate | | | | | |

Signature /Thumb impression of the person in whose favour disability certificate is issued

Recent PP Size
Attested
Photograph
(showing face only
of the person with
disability

Form-IV

Certificate of Disability (In cases other than those mentioned in Forms II and III)

(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)

| Certifi | cate No. | | | Date: |
|-------------------|--|-------------------------|----------------|---|
| his is t | o certify that I have carefully examin | ed Shri/Smt./Kum | | son/wife/daughter of |
| Shri | Date of I | Birth (DD/MM/YY) $_{-}$ | Age _ | son/wife/daughter of years, male/female, Registration of House |
| 10 | permane | ent resident | | of House |
| Post Of | No | Ctoto | V | of House Vard/Village/Street |
| nd am | satisfied that he/she is a case of | , State | disability | , whose photograph is affixed above, His/her extent of percentage physical |
| mpairm | ent/disability has been evaluated as | per guidelines (to be | specified) an | Vard/Village/Street, whose photograph is affixed above, r. His/her extent of percentage physical d is shown against the relevant disability |
| n the tal | ble below:- | | | |
| | | | | |
| Sr. No. | Disability | Affected Part of Body | Diagnosis | Permanent physical impairment/mental disability (in %) |
| 1. | Locomotor disability | @ | | |
| 2. | Muscular Dystrophy | | | |
| 3. | Leprosy Cured | | | |
| 4. | Cerebral Palsy | | | |
| 5. | Acid attack Victim | | | |
| 6. | Low vision | # | | |
| 7. | Deaf | £ | | |
| 8. | Hard of Hearing | | | |
| 9. | Speech and language disability | | | |
| 10. | Intellectual disability | х | | |
| 11 | Specific Learning Disability | | | |
| 12 | Autism Spectrum Disability | | | |
| 13 | Mental-illness | Х | | |
| 14 | Chronic Neurological conditions | | | |
| 15 | Multiple selerosis | | | |
| 16 | Parkinson's disease | | | |
| 17 | Haemophlia | | | |
| 18 | Thalassemia | | | |
| 19 | Sickle Cell disease | | | |
| (PI | ease strike out the disabilities which | are not applicable) | | |
| 2. | The above condition is progressive | /non-progressive/like | ly to improve/ | not likely to improve. |
| | | | | |
| 3. F | Reassessment of disability is: | | | |
| (i) O ı | | | | |
| | | yea | ars | months, and therefore, this |
| | - e.g. Left/Right/both arms/legs | -, | | |
| | | | | |
| | e.g. Single eye/both eyes | | | |
| £ - | e.g. Left/Right/both ears | | | |

4. The applicant has submitted the following document as proof of residence:-

Nature of DocumentDate of Issue Details of authority issuing certificate

(Authorised Signatory of notified Medical Authority) (Name and Seal)

Countersigned

{Countersignature and seal of the CMO/Medical Superintendent/Head of Government Hospital, in case the certificate is issued by a medical authority who is not a government servant (with seal)}

Signature /Thumb impression of the person in whose favour disability certificate is issued

Note: 1. "In case this certificate is issued by a medical authority who is not a government servant, it shall be valid only if countersigned by the Chief Medical Officer of the District"

Form-V

(intimation of rejection of Application for Certificate of Disability)

| No | Dated | |
|---|---|-----------------------------|
| То | | |
| | (Name and address of applicant For Certificate of Disability | |
| Sub: | : Rejection of Application for Certificate of Disability | |
| Sir/Mada | Madam, | |
| Please r | ase refer to your application dated for issue of a Certificate of Disability for | the following disability: |
| and I reg favour:- (i) (ii) (iii) 3. In ca | ursuant to the above application, you have been examined by the undersigned / Medical A I regret to inform that, for the reasons mentioned below, it is not possible to issue a Certificur:- In case you are aggrieved by the rejection of your application, you may represent to review of this decision. | cate of Disability in your |
| | Yours faithfully, | |
| | (Authorized Signatory of the (Name and Seal) | notified Medical Authority) |

Certificate for candidates applying under the reserved category for Cancer / Thalassemia / AIDS

DETAILED ADDRESS OF ISSUING PHYSICIAN AND HOSPITAL (Mention serial number and date with phone number and address)

| | | Photograph to be attested by the Physician |
|---|-------------------------|---|
| | f the student), Date of | |
| C.R./OPD No. (complete address), is a | D/o / diagnosed case | S/o of |
| (complete address), is a (Cancer / Thalassemia / AIDS)*. She/he is u | | |
| same under my care. | | |
| | | |
| | | |
| | | |
| | | |
| _ | (Signature of the Pa | atient) |
| | | |
| | <u>Att</u> | tested . |
| | | |
| | | |
| | (0) | |
| | (Signature of the Phys | sician) |
| Name and address of the Physician _ | | |
| Stamp of the Physician | | |
| Gramp of the Litystolan | | |

* Strike out whichever is not applicable.

APPENDIX D*

GUIDELINES FOR ADMISSION TO THE RESERVED CATEGORY OF SPORTS (Candidates are advised to visit website of Sports Department at www.sports.puchd.ac.in)

Five percent seats of the total number of seats in each course are reserved under this category. No benefit on the basis of sports shall be given to candidates who did not apply for the admission under reserved category of sports.

- Each candidate applying for admission in this category shall, along with the Admission Form, will
 submit following documents to the concerned department and photocopy of one complete set of
 Admission Form, along with the all relevant documents after paging all the documents, will submit
 in the office of Campus Sports, (Gymnasium Building), P.U. Chandigarh before the last date of
 submission of form. The candidate has to submit the form complete in all respect within stipulated
 date in the concerned department and in the Campus Sports Department.
 - a) Self attested photocopies of sports certificates having photograph duly pasted on the certificate and attested by the respective issuing authority (i.e. National Federation of Concerned game/State Association/ Head of the Institution last attended).
 - Self attested photocopies of Class 10th and Class 10+2 and Bachelor's Detailed Marks Certificates.
 - c) Undertaking of the sports achievements (Annexure-I) and attendance in sports grounds (Annexure-II)
 - d) List of players of the team in case of team games and competitors in case of individual games of the concerned sports tournaments for which the eligibility has to be verified, duly attested by the respective issuing authority/ Head of Institution of last attended/ downloaded from concerned official website.
- 2. The D.U.I. has the authority to cancel admission at any time, if it is found that the candidate has obtained such admission on the basis of a false certificate or incorrect statement/record.
- 3. Candidates seeking admission under Sports category will be considered for admission only in the games / events / sports which are included in the Olympic Games / Asian Games / Commonwealth games immediately preceding the year of admission. Along with the games included in the above said tournaments, four games namely Chess, Cricket, Kho-kho and Yoga will also be considered as eligible sports disciplines for admission under reserved category of Sports (Annexure-III).
- 4. Reservation under Sports Category is meant only for those active sportsperson¹ who participate in the Campus, University, State, National, International level sports tournaments. Such students will be considered for admission only if:
 - i. Their achievement in sports relates to their activities in any of the **four years** immediately preceding the year of admission² (relaxable to **5 years** in exceptional cases, on merit, for outstanding sportspersons³).
 - ii. They are otherwise also eligible for participation in Inter-College, Inter-University tournaments. Candidates applying for sports quota must also be eligible on the basis of age

¹ Means a person attending the grounds regularly so as to appear himself for participation in the Inter College and Inter University tournaments. However, his / her age fall within the age group which is eligible for participation in Inter College/ Inter University Competition.

² Preceding four years means from 1st July 2019 to 30th June 2023.

³ A person getting any of the first three positions or represented India in the Olympic Games/ Paralympics Games/ World Cups / Championships / Asian Games/ Asian Cups / Asian Championships / Common wealth Games / Common Wealth Championships/ World University Games/ World University Championship for seniors and juniors. A person getting any of the First Three position in the National University Games / Khelo India University Games and in those games and tournaments which are considered for the calculation of marks awarded to each University for the purpose of awarding MAKA Trophy and recognized by competent authority of the respective game as mentioned in clause 14.

to participate in the Inter University Competitions representing Panjab University for the next one year of their course duration.

- iii. The Candidate qualify in the Sports trials i.e. General Fitness test and Skill & Game Performance Test in the concerned game. It is essential to qualify the General Fitness Test as per the norms laid in **(Annexure-IV) before** appearing in Skill & Game Performance Test and it is essential to qualify the Skill and Game Performance test to be eligible for verification of original sports certificates for awarding marks. The sports merit will be prepared as per **Annexure-V**.
- iv. No document including Undertaking etc. will be accepted after the last date of submission of Admission Form by the Campus Sports Department. However, in case any sportsperson earns any achievement up to **June 30, 2023,** he/she may submit supplementary copy of the document to the Campus Sports Department along with additional Undertaking.
- v. Sports Participation in the same game in two different competitions in two different academic sessions (irrespective of the event) is essential for the candidates seeking admission under this category within the prescribed period of **four years i.e. from 1**st **July 2019 to 30**th **June 2023.** The merit for admission in the Sports Category will be purely on the basis of criteria given in **Annexure-V.** However, the minimum level of sports participation to be considered for supporting certificates will be Inter school / Inter College /Regional/ Cluster /District/ State Level Participations.
- 5. A committee constituted by the Vice-Chancellor / DUI shall prepare the sports merit of applicants applying under reserved category of Sports by screening the applications, conducting General Fitness Test, Skill & Game Performance Test and verifying the original Merit / Participation Sports Certificates of the applicants as per norms incorporated in **Annexure V**. Only such applicants will be allowed to appear for the actual sports trials, whose application is found in conformity with the requirement/ qualifications mentioned in the Guidelines by the Campus sports Department. Candidates are to appear for sports trials in proper sports kit with all the original sports certificates and required academic certificates.
- 6. The Campus Sports Department, Panjab University shall take an undertaking (Annexure-II) from the candidates that they will attend the grounds regularly and must have 75% of attendance in the sports ground and would also participate in the Inter-College, Inter-University, State, National and International sports tournaments, if selected. Their admission would be liable to be cancelled if the terms of the undertaking thus given are not adhered to.
- 7. The order of precedence in the selection of candidates for admission will be as per Annexure-V.
 - Applicant securing higher marks in sports merit will be placed / given higher preference.
 - ii. If there is a tie within the same category, the tie shall be resolved by considering the 'academic merit' i.e. as per admission criteria of the concerned department and even then if there is tie, it will be resolved by the seniority in age i.e. date of birth of the candidate and such tie will be resolved by the concerned Department in which an applicant applied for admission.
- 8. Age category tournaments such as sub-junior, junior, youth, cadet etc. are vary from game to game. In this regard, P.U. Admission Committee for sports will take the decision whether the performance of the players fall under junior/ youth category as per age criteria mentioned in **Annexure V**.
- 9. It is mandatory to participate actively in all sports competitions, if selected, and at least 75% attendance in Panjab University sports grounds is required to enable to sit in the examination for all the candidates admitted against reserved category of sports. The attendance certificates shall be issued by the Campus Sports Department in favour of each candidate whose attendance in sports grounds is at least 75% and admit card for examination shall be issued by the Chairperson only on the production of such a certificate.
- 10. When a candidate is required to abstain from the Department for participation in Inter College / Inter University / National / International / State Sports Tournaments, he/she shall give prior information to the Chairperson of the concerned Department.
- 11. If a candidate admitted under the reserved category of Sports, remains absent from the grounds for regular practice for a continuous period of seven days without leave, his/her names shall be struck

- off the rolls by the Chairperson of the concerned Department on the recommendation of the Director Physical Education & Sports, Panjab University, Chandigarh.
- 12. Deficiency of equal numbers of lectures (theory, practical, seminars and tutorials etc.) shall be condoned for sportspersons for attending Coaching Camps and participation in various tournaments i.e. Inter Hostel and Inter Department (Conducted by P.U. Campus Sports), Inter College, Inter District, State, Inter State, Inter University, National and International level tournament.
- 13. In case a candidate does not attend the grounds for practice or does not participate in the P.U. Campus Sports Activities including Campus Annual Athletic Meet, Inter College Competition, Inter University Tournaments on medical grounds, the Medical Certificate issued only by the University Chief Medical Officer will be accepted.
- NOTE: In case a student remains present in the concerned Department for classes but absent in the grounds for sports then his/her Medical Certificate will not be accepted and his/her admission shall liable to be cancelled.
- 14. In case there is one association / federation or more than one association / federation in any game, the sports certificates issued by those concerned game State Associations for State level tournaments will be considered which are recognized by National Federation of the concerned game duly recognized by Ministry of Sports and Youth Affairs, India and duly registered under the concerned Indian Act. For Inter-state, National and International level competitions conducted in India, the certificates issued by only those National Federations of the concerned game will be considered which are duly recognized by Ministry of Youth Affairs and Sports India and the recognized National Federation of the concerned game must be recognized by International Federation of the concerned game. In case of Cricket, BCCI will be the competent authority. For International level competitions, the certificates issued by those National Federations / International Sports Federation of the concerned game (e.g. FIBA, FIFA etc.) will be considered which are duly recognized by concerned Country's Olympic Association and Ministry of Sports. Such National Olympic Association should be duly recognized by International Olympic Committee.
- 15. Certificate on Letter head will not be considered in normal course. The Certificates of the concerned tournament must be signed by minimum two office bearers of concerned Association / Federation. However, if the certificates are not issued in the required format by some sports Organization / Association in a particular game, those cases will be looked after separately by the screening committee on the recommendation of Campus Sports Department.
- 16. The clause 4 (i) and (ii) will not be applicable for Arjuna Awardee / Rajiv Khel Ratan Awardee / Padam Shree Awardee / Olympians in any game/sports with the condition that if such a candidate is successful in getting admission but barred for participation due to age bar then he/she will coach or groom a team of his expertise for at least five hours a week without seeking any remuneration.
- 17. The admission of students under reserved category of sports will be provisional until the verification of sports certificates from the concerned issuing authority.
- 18. No invitational / Memorial / Open /Prize Money League/ Ranking tournament will be considered for admission under reserved category of sports. Further, marks will not be given for tournament which are held more than once a year. Further marks will be given to those number of team players in the specific game as considered for All India Inter University competitions.
- 19. The sportspersons who have represented in the recognized competitions recognized by Ministry of Youth Affairs and Sports, Olympic Games by International Olympic Committee, World Championship / World Cup by International Sports Federations, Commonwealth Games by Commonwealth Games Federation, Asian Games by Olympic Council of Asia, Asian Championships by International Sports Federations, South Asian Federation Games (SAF) by South Asian Sports Council, Paralympic Games by International Paralympic Committee, World University Games By FISU/ Asian University Games / Championship by AUSF (Asian University Sports Federation), University games by AIU, will only be eligible for admission under reserved category of sports in Panjab University, Chandigarh.
- 20. Second Round of Sports Trials will be conducted in the request of particular department for the candidates who could not appear in the first Round of Sports Trials due to any reason, if the seats remain vacant in the concerned department.

ANNEXURE-I

UNDERTAKING FOR ACHIEVEMENTS IN SPORTS

| Shri | | | | (father's name | 0 | | | | |
|---|---|------------------|--------------------------------------|------------------|---------------------|--|--|--|--|
| JIII I | | of | | (lucifer 5 Hanne | .,, 50111 011 | | | | |
| | (address) hereby solemnly declare and affirm as under:- | | | | | | | | |
| 1. That as Sportsman/Sportswoman in (name of discipline), I have represented the team(s) in the competition(s) on date(s) and also of named position(s) as indicated in the table below:- | | | | | | | | | |
| Sr. No. | Sports Disciplines | Team Represented | Name of the competition & year | Venue/Date | Position Secured | | | | |
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |

- 2. That the certificate(s) mentioned above as produced by me in support of the above are authentic.
- 3. I understand that in case the information/documents supplied by me are found to be false, incorrect or forged, my admission will stand cancelled and I shall be liable for criminal action.

(Signature of the applicant)

ANNEXURE-II

UNDERTAKING FOR ATTENDANCE IN SPORTS GROUND

| l, | son/daughter of resident |
|-------|---|
| of | do hereby declare as under :- |
| (i) | That I am seeking admission to the Department of under the Sports Category. |
| (ii) | That in case I am admitted to the above said department I shall regularly attend the grounds for practice and I shall also participate in P.U. Campus Sports Activities including P.U. Campus Annual Athletic Meet/Inter-College/Inter-University/National/International Sports Tournament on behalf of the P.U. Campus and the Panjab University if selected. |
| (iii) | That in case I fail to regularly attend the Grounds for practice or fail to participate in the tournaments as and when required, my admission to the Department of shall be liable to be cancelled. |
| (iv) | That in case my admission to the Deptt. ofis cancelled due to my failure to regularly attend the grounds for practice or to participate in the P.U. Campus Sports Activities (including Annual Athletic Meet) / Inter-University / National / International Sports Tournaments as may be required by the Campus Sports Department, Panjab University, Chandigarh. I shall have no claim on any account whatsoever against the Department or against the University. |
| | (Signature of the applicant) |

ANNEXURE-III

<u>LIST OF SPORTS DISCIPLINES ELIGIBLE FOR ADMISSION UNDER RESERVED</u> <u>CATEGORY OF SPORTS</u>

Sports disciplines to be considered for admission under reserved category of sports will be based on the following conditions:-

- 1) The sports disciplines should also be part of proceeding Olympic / Asian Games / Commonwealth Games immediately preceding the year of admission.
- 2) Apart from the above the following four sports disciplines are included based on popularity / indignity.
 - a) Chess
 - b) Cricket
 - c) Kho-kho
 - d) Yoga

LIST OF GAMES

| Sr. | Game | Sr. | Game |
|-----|-----------------------------|-----|----------------------------|
| No. | | No. | |
| 1 | Aquatics (M & W) | 23. | Roller Skating (M & W) |
| 2 | Archery (M & W) | 24. | Rowing (M & W) |
| 3 | Athletics (M & W) | 25. | Rugby (M & W) |
| 4 | Badminton (M & W) | 26. | Sailing / Yachting (M & W) |
| 5 | Baseball (Men) | 27. | Sepak Takraw (M & W) |
| 6 | Basketball (M & W) | 28. | Shooting (M & W) |
| 7 | Boxing (M & W) | 29. | Soft Tennis (M & W) |
| 8 | Bridge (M & W) | 30. | Soft Ball (Women) |
| 9 | Canoeing & Kayaking (M & W) | 31. | Squash (M & W) |
| 10 | Cycling (M & W) | 32. | Table Tennis (M & W) |
| 11 | Equestrian (M & W) | 33. | Tennis (M & W) |
| 12 | Fencing (M & W) | 34. | Triathlon (M & W) |
| 13 | Football (M & W) | 35. | Volleyball (M & W) |
| 14 | Golf (M & W) | 36. | Weight Lifting (M & W) |
| 15 | Gymnastic (M & W) | 37. | Wrestling (M & W) |
| 16 | Handball (M & W) | 38. | Wushu (M & W) |
| 17 | Hockey (M & W) | 39. | Cricket (M & W) |
| 18 | Judo (M & W) | 40. | Kho-Kho (M & W) |
| 19 | Karate (M &W) | 41. | Chess (M & W) |
| 20 | Netball (Women) | 42. | Yoga (M & W) |
| 21 | Kabaddi (M & W) | 43. | Pencak Silat (M & W) |
| 22 | Taekwondo (M & W) | 44. | Tenpin Bowling (M & W) |

ANNEXURE-IV

CRITERIA FOR GENERAL FITNESS TEST, SKILL & GAME PERFORMANCE TEST FOR ADMISSION UNDER RESERVED CATEGORY OF SPORTS

| | General Fitness Test | | | | | | |
|----------------------|------------------------|--|--|--|--|--|--|
| | | candidates to qualify any one of the fol | ě . | | | | |
| COI | nsiderations of admi | ssion in Archery, Chess, Shooting and ar | ny two of the following fitness test items | | | | |
| | for considerati | on of admission in other games / sports | s as per the following standards. | | | | |
| 1. | Strength | Standing broad jump | Two attempts allowed | | | | |
| | | 1.65 mts. For Men | - | | | | |
| | | 1.15 mts. For Women | | | | | |
| 2. | Endurance | 1000 mts. Run/Walk | One attempt allowed | | | | |
| | | 5.00 minutes for Men | | | | | |
| | 6.00 minutes for Women | | | | | | |
| 3. | Speed | 50 mts. Dash | Two attempt allowed | | | | |
| 8.00 seconds for Men | | | | | | | |
| | | 9.00 seconds for Women | | | | | |

Note: It is essential to qualify the General Fitness Test for appearing in the Skill & Game Performance test.

- 1. No Physical Fitness Test for specially challenged candidates / players.
- 2. All the candidates are to appear in the General Fitness Test in proper sports kit.
- 3. Any injury / casualty caused to the applicant during sports trials shall be the sole responsibility of the applicant.

| It is essenti | Skill and Game Performance Test It is essential for the candidate to qualify the Skill and Game Performance Test for consideration of admission. | | | |
|---------------|--|--|--|--|
| 1. | Fundamental Skills in the concerned game | | | |
| 2. | Game Performance in Trials. | | | |

Note: It is essential to qualify the Skill & Game Performance Test for Verification of Original Sports Certificates for awarding Marks.

| Merit / Participation Sports Certificates |
|---|
| Maximum 100 Marks for Merit / Participation Sports Certificates |
| Maximum 100 Marks for Merit / Participation Sports Certificate as per the criteria in Annexure-V. Only the Highest Merit / Participation Sports Certificate will be considered for Marking. |

ANNEXURE-V CRITERIA FOR MARKING OF MERIT / PARTICIPATION SPORTS CERTIFICATE OUT OF MAXIMUM 100 MARKS

| l | Level of Game/ Sport Competition(s) | Ist | IInd | IIIrd | Participation |
|------------|--|-----|------|-------|---------------|
| <u>CAT</u> | 'EGORY 'A' | | | | |
| 1. | Sports performance as a player in Olympic Games / Paralympic Games (under senior / open category). | 100 | 97 | 95 | 91 |
| 2. | Sports performance as a player in World Cups/ Championships (Four Year Cycle) under senior / open/ para games category | 97 | 95 | 93 | 89 |
| 3. | Sports performance as a player in Asian Games (under senior / open/ para games category) | 95 | 93 | 91 | 87 |
| 4. | Sports performance as a player in Asia Cup / Asian Championship (Four Year Cycle) under senior / open/ para games category | 93 | 91 | 89 | 85 |
| 5. | Sports performance as a player in Commonwealth Games (under senior / open/ para games category). | 91 | 89 | 87 | 83 |
| 6. | Sports performance as a player in Commonwealth Championships (Four Year Cycle) (under senior / open/ para games category). | 89 | 87 | 85 | 81 |
| 7. | Sports performance as a player in World cups / World Championships (Two Years Cycle) under senior / open/ para games category | 87 | 85 | 83 | 79 |
| 8. | Sports performance as a player in Asia Cup / Asian Championship (Two Years Cycle) under senior / open/ para games category. | 85 | 83 | 81 | 77 |
| 9. | Sports performance in Commonwealth Championships (Two Years Cycle) under senior / open/ para games category. | 83 | 81 | 79 | 75 |
| 10. | Sports performance as a player in World University games / World University championships (Two year Cycle) | 81 | 79 | 77 | 73 |
| 11. | Sports performance as a player in World Cup / Championship (one year cycle) under senior / open/ para games category. | 79 | 77 | 75 | 71 |
| 12. | Sports performance as a player in Asia Cup / Asian Championship (One Year | 77 | 75 | 73 | 69 |

| Cycle) under senior / open/ para games category / Sports performance as a player in Common Wealth Championships (One Year Cycle) under senior / open / para games category/ Sports performance as a player in South Asian Games (under senior / open / para games category). Asian University Games and Championships. Note: Marks for World Cup/ Championships, Asian Cup/ Championships / Common wealth Championships under Junior/ Youth/ Cadet categories will be awarded ¾ of marks awarded to the respective senior categories of same tournament / championship / category e.g. for Junior World Cup / Championship for 1st 87x3/4 = 65.25, for IInd 85 x ¾ = 63.75, for IIIrd 83 x ¾ = 62.25 and so on. CATEGORY 'B' 1. Sports performance as a player in National Games (under senior/ | 50 | 48 | 46 | 42 |
|--|----|----|----|----|
| open/ para games category) 2. Sports performance as a player in National University Games / Inter Zonal Universities Games for Universities (under senior / open/ para games category) / Sports performance as a player in senior National / Inter State Championships for seniors / Federation Cup for seniors / khelo India school games / Kehlo India University Games (under 21) // Sports performance as a player in Khelo India School Games / SGFI National School Games. Sports performance as a player in Junior National / Cadet Nationals / Youth Nationals | 48 | 46 | 44 | 40 |
| 3. Sports performance as a player in Zonal University Championships / National Zonal Championships (under senior and open/ para games category) | 46 | 44 | 42 | 38 |
| CATEGORY 'C' 1. Sports performance as a player in A division Inter College tournaments other than professional Universities/ Deemed Universities / Agricultural Universities / Law Universities / Technical and Management Universities /Senior State Championship / Inter District Championships / State School Games | 36 | 34 | 32 | 28 |

| / Junior / Cadet / Youth/ para games/ State Championship. Position as a player in Inter University Tournament / Competitions for professional Universities / Deemed Universities / Agricultural Universities / Law Universities / Technical and Management Universities, School Nationals other than SGFI | | | | |
|---|----|----|----|--------------|
| CATEGORY 'D' 1. Sports performance as a player in inter college of professional universities / residential universities / PU Campus Championships / B and C division Inter college. | 26 | 24 | 22 | Not Eligible |
| Note: The certificates not mentioning the level of tournament i.e. Senior /Junior / Youth / Schools will be considered as per the following age criteria: 1. Under 17 Junior 2. Under 19 Youth 3. Above 19 Senior * BCCI: Board of Control for Cricket in India * SGFI: School Games Federation of India * MYAS: Ministry of Youth Affairs & Sports | | | | |

Note:

- 1. Sports Certificate of Invitational / Memorial /Open/ Prize Money League/ Ranking and other tournaments not mentioned in Annexure -V, competitions will not be considered for admission under reserved category of sports.
- 2. Merit / Participation Sports Certificates of preceding four years will be considered from 01^{st} July 2019 to 30^{th} June 2023.
- 3. Applicants are required to upload Self-Attested copies of two Merit / Participation Sports Certificates.
- 4. Only the Highest Merit / Participation Sports Certificates will be considered for Awarding Marks.

GENERAL RULES

The result of the Entrance Test shall, ipso facto, not entitle a candidate to get admission in an institution/department/centre/college concerned where he/she intends to seek admission. It will be the responsibility of the candidate to make sure about his/her eligibility and fulfillment of such other conditions as may be prescribed for admission in the rules and regulations of University/Institution concerned. Merely because a candidate is allowed to appear in the Entrance Test does not mean that he/she is eligible and his/ her appearance therein will not stop or debar the university/ institution concerned from satisfying itself about his/her eligibility at any subsequent stage.

Notwithstanding anything contained in this prospectus, the eligibility conditions for admission to any particular course, shall be governed by the respective rules/regulations as enshrined in the P.U. Calendar, Volumes I, II and III (latest editions) and / or the General Guidelines for Admissions/ Handbook of Information-2023 issued by the University and / or decisions of the University senate/ syndicate. In case of any conflict or inconsistency between the prospectus on one hand and the aforesaid Panjab University rules and regulations/ guidelines / Handbook of Information-2023 / decisions of Senate/ Syndicate, on the other, the latter shall prevail.

- The Entrance Test will be held at <u>CHANDIGARH</u>, <u>REGIONAL CENTRES at</u> HOSHIARPUR, <u>LUDHIANA AND MUKTSAR</u> on the scheduled dates.
- A candidate desirous of taking the Entrance Test should submit his / her through online payment mode latest by 23-05-2023 (Tuesday).
- 4. Last date for uploading of photograph, signature with rest of the information on the website is 25-05-2023 (Thursday).
- 5. In no case, the fee for the PU-CET (P.G.) 2023, once paid, shall be refunded/ transferred / adjusted.
- 6. In case of Objective Type question papers, the candidates shall be required to answer questions on the OMR Answer-sheet provided for the purpose only following all the rules/ norms as stated on the Answer sheet. However, entrance test for admission to M.A. English; M.A. Journalism and Mass Communication and M.A. (History) shall not be on OMR sheet.
- 7. The Entrance Test shall be in English only.
- 8. Thirty minutes extra would be given to the visually handicapped/PwD candidates.
- In case of Objective Type question papers, the candidates shall be required to hand-over the Question booklet and OMR Answer sheet to the Centre Superintendent.
- 10. The candidates shall be required to hand over their OMR answer-sheets and the question paper in full to the Centre Superintendent. No page/part of the Question paper/OMR Answer Sheet is to be removed/torn/taken out of the Examination Centre under any of the circumstances, failing which the candidates shall be disqualified from the entire Entrance Test.
- 11. The use of calculators is not allowed in any subject/paper.
- 12. The University will provide logarithmic table. Borrowing or carrying ofthe log table or other such material is not allowed.
- 13. If any candidate who submits two online Entrance Test forms for the same Course his/her candidature shall be considered only on the basis of one Form.
- 14. The candidates must bring their own stationary items such as Black Gel Pen. Borrowing of material inside the Test Centre is strictly prohibited.
- 15. In case of Objective Type question papers, *rough work* should be done in the space provided for this purpose. No rough work shall be done on the OMR Answer Sheet under any circumstances.
- 16. In case of Objective Type question papers having OMR sheets, there shall be NEGATIVE MARKING FOR WRONG ANSWERS, i.e., marks will be deducted for wrong answers. If for each correct answer 1 mark is to be awarded, for a wrong answer ½mark will be deducted.
- 17. There shall be *no re-evaluation/re-checking/re-assessment* of answer-sheets (Objective and Subjective) under any circumstance. Request for seeing the Question Booklet / answer-sheets/answer-books by the candidates shall not be entertained at all. The evaluation once done by the University shall be absolutely final.
- 18. If a candidate wishes to verify his/her result, he/she will be provided a photocopy of his/her OMR answer sheet only (Objective type Paper only) on payment of Rs. 10,000/- within 10 days after the declaration of the Entrance Test result and the office should process the whole

procedure within three working days. In case, a discrepancy is found in the result of the candidate, the result would accordingly be revised and the fee deposited will be refunded.

19. In case of Objective Type question papers, the candidate must ensure that the answers to the questions are attempted on the specifically prescribed OMR answer sheet only. No answer attempted on the question booklet will be considered for evaluation. Only those questions answered on the OMR sheet shall be taken into account.

20. RESOLVING OF TIES

Candidates securing equal marks in the Final Merit List shall be bracketed together. However, ther inter-se merit rank shall be determined as under:-

- (a) A candidate getting higher percentage of marks in qualifying examination (Bachelors degree) shall rank higher in order of merit.
- (b) If the marks, as mentioned in (a) are also the same then the candidate obtaining higher percentage of marks in 12th class or an equivalent examination shall rank higher in order of merit.
- (c) If two or more candidates secure equal marks in (a) and (b) above, candidate senior in age shall rank higher in order of merit.
- 21. For the courses offered by the Panjab University Departments / Centres, the candidate will have to fill up and submit an online Admission Form at http://onlineadmissions.puchd.ac.inon or before the last date as prescribed by the University.
- 22. The admission shall be based on the relative merit of the candidates as determined by the marks obtained in the qualifying degree examination and the result of the Entrance Test being held in the year of Admission, subject to such reservation and weightage as are prescribed in the Rules of Admission of the University Department/Centre concerned.
- 23. Carrying of any communication equipment such as mobile phones / pager/ wireless set, scanner/ pen scanner/ camera or any such electronic / digital gadget etc in the examination hall shall not be permitted and will lead to disqualification.
- Candidates should not carry eatables, drinks etc. into the Test Centre. Smoking inside and around the Centre is not permitted.
- 25. Any candidate who creates disturbance of any kind during examination or otherwise misbehaves in or around the examination hall or refuses to obey the Superintendent/Deputy Superintendent/Assistant Superintendent /any other official on examination duty or changes his/her seat with any other candidate or occupies any seat, other than the one allotted to him/her shall be expelled from the examination hall. ("Expulsion" for this purpose would mean cancellation of the Entire Entrance Test). The Centre Superintendent/Observer/any other authorized University Officer/Official shall be competent to expel a candidate from the examination centre.
- 26. Any candidate having in his possession or accessible to him/her paper/books or notes which may possibly be of any assistance to him or is found giving or receiving assistance, or copying from any paper/book or note or from anywhere else or allowing any other candidate to copy from his/her answer book or found writing on any other paper, questions set in the question paper, during examination or using or attempting to use any other unfair means or indulging in any kind of misconduct shall be expelled from the examination hall. ("Expulsion" for this purpose would mean cancellation of the Entire Entrance Test). The Centre Superintendent/Observer/any other authorized University Officer/Official shall be competent to expel a candidate from the examination centre.
- 27. If any answer sheet of a candidate shows or it is otherwise established that he/she has received or attempted to receive help from any source in any manner or has given help or attempted to give help to any other candidate in any manner, the relevant answer-sheet shall be cancelled. The cancellation of the answer-sheet shall mean cancellation of all answer- sheets of the Common –Entrance Test. The decision of the Controller of Examinations, Panjab University, Chandigarh in this regard shall be final.
- 28. If a candidate writes his/her name or puts any kind of identification mark or discloses his/her identity by any method whatsoever on the cover or anywhere else in the Question Booklet/Answer Sheet, the same shall be treated as cancelled. The cancellation of the answer-sheet shall mean cancellation of all answer-sheets of the Entrance Test. The decision of the Controller of Examinations, Panjab University, Chandigarh in this regard shall be final.
- 29. Any person who impersonates a candidate shall be disqualified from appearing in any University examination including this examination for a period of five years, if that person is a student on the rolls of a recognized College or University. But if the person is not on the rolls of a recognized College or University, he/she shall be declared as a person not fit and proper to be admitted to any examination of the University for a period of five years and the case, if necessary, shall also be

reported to the police for further action in the matter. The candidate who is being impersonated shall also be disqualified for a period of five years from appearing in any examination of this University apart from any other action which the University may take against him, as deemed fit

- 30. If it is found that a candidate has knowingly or willfully concealed or suppressed any information/fact which renders him/her ineligible to take the Entrance Test, his/her result of the Test as also admission to a Institution/Department/Centre of the University, if granted, shall stand cancelled and he/she shall have no claim whatsoever against the Institution/Department/Centre concerned and the case, if necessary shall be reported to the police.
- 31. In order to avoid bias, the marks of the Entrance Test in case of such course where weightage of performance in Interview and/ or Group Discussion is to be added shall remain confidential till the process of compilation is not completed.
- 32. If a dispute or controversy of any kind arises before, during or after conduct of Entrance Test, the decision of the Controller of Examinations, Panjab University, in all such cases, shall be final.
- 33. The candidates shall be allowed to appear in the Entrance Test only on the production of the Admit Card at the Test Centre. No candidate shall be allowed to take the test without the Admit Card under any circumstances. The candidates must retain the Admit Card with them till the admission process is over, since it will be required again at the time of counseling.
- 34. The Admit Card will be issued to the candidates only provisionally, at his/her sole risk and responsibility subject to the final confirmation of eligibility at the time of admission. It is further clarified that the candidates shall be taking the test at his/her own risk and responsibility as far as their eligibility is concerned and the University shall, in no way, be responsible if they are found to be ineligible, later, leading to cancellation of their result or any other consequence(s) emanating from the same.
- No candidate is allowed to leave the examination hall/room before the expiry of the time allotted for the respective paper.
- 36. The result of the PU-CET (P.G.) 2023 will be available at http://results.puchd.ac.in.
- 37. On 20-06-2023 (Tuesday) the question papers and their keys will be put on the University website. The candidate can file their objections regarding discrepancies and accuracy of the key, in writing, within 48 hours of this announcement i.e. 22-06-2023 (Thursday) through email at arcet@pu.ac.in. Objections received will be published on the website and cross objections will also be invited within a certain timeframe as mentioned in the Schedule for Entrance Test and Admission PU-CET(PG)-2023 at Page ______The valid concerns thus expressed will be given due consideration for evaluation.
- 38. The final date by which Admit Card will be available online is 05-06-2023 (Monday). Admit Card required to be downloaded from the website by the candidates using their own Login and Password. There will be no physical communication for this purpose.
- 39. No separate Result Card will be issued.
- 40. The following functionaries may be contacted only in case of extremely urgent enquiry from 10.00 a.m. to 4.00 p.m. (on working days only)

1. Assistant Registrar (C.E.T.) 0172-2534829

2. Office Superintendent (CET) 0172-2534829, 9814666346

3. Dealing Official (CET) 9872812339

4. Controller of Examinations 0172-2534811, 2541825

5. P.U., Main Enquiry 0172-2534818, 2534819, 2534866

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- 41. Ragging in any form is banned in Panjab University. If a student is found to have indulged in ragging, strict action including expulsion from the Institution will be taken against that student as per Rules.
- 42. Special arrangements for amanuensis (writer of answer):

A candidate may be allowed help of an amanuensis (writer) if he/she is:

- (i) Blind OR
- (ii) Permanently disabled from writing with his/her own hand.
- (iii) Temporarily disabled from writing on account of fracture of the right or left arm, forearm or dislocation of a shoulder elbow or wrist etc. The candidate shall produce a certificate from a Professor of the speciality concerned of a Medical College and where there is no Medical College, from the Chief Medical Officer of the District concerned to the effect that the candidate is unable to write his/her answer-books because of the temporary disablement.

43. ADMISSION PROCESS

- a) Qualifying an Entrance Test does not entitle a candidate to seek admission in a course. The candidate will have to fill up and submit an online Admission Form to be available at http://onlineadmissions.puchd.ac.in(to be announced later on) and has to meet the eligibility requirements of the course.
- b) Every candidate must apply for the Reserved Category (ies) to which he/she belongs to in the Admission Form. All candidates will be considered in the General Category irrespective of the fact that they have claimed for admission under Reserved/Additional Categories subject to the condition that they must fulfil the minimum eligibility requirement of the course for General Category. No candidate shall be considered for admission against any Reserved Category(ies) for which s/he has not applied.
- c) Once the candidate has submitted the online Entrance Test Form, any change in the Form including category once marked shall not be allowed.
- d) The candidates who are applying under the Sports Category are required to see Appendix B (pp. 57-59) for further procedures and guidelines.
- Candidates who wish to claim weightage on the basis of NCC, NSS, Youth Welfare, ADULT EDUCATION and other activities should follow the guidelines as enshrined in the Handbook of Information-2023.

44. INSTRUCTIONS RELATED TO COUNSELLING

- a) A candidate, whose name appears in the Merit List will be required to attend counselling personally according to her/his merit position on the day/s shown in the counselling schedule to be uploaded on the Online Notice Board and also on the physical notice board of the department concerned. Physical presence in the counselling is mandatory for all the candidates on the notified dates. All those candidates who attend the counselling are requested to mark their attendance. Only those candidates who report and mark their attendance on the day(s) of counselling shall be considered for admission during the filling up of vacant seats. The candidate must bring alongwith all the original documents.
- b) The candidate shall attend the counselling for admission at her/his own risk, expense and responsibility.
- 45. The admission of a candidate shall be PROVISIONAL and subject to approval by the appropriate authority of Panjab University.

46. CANCELLATION OF SEATS / ADMISSION

Admission of all such students who fail to attend at least 33% of the total lectures/ tutorials / practicals etc. delivered / held in all the papers during the first ten working days from the start of teaching work shall be cancelled by the Board of Control/ Joint Admission Cell after following the procedure given below:-

- a. By the 12th day after the start of classes for a particular course, the names of those students who fail to attend at least 33% of the total lectures / tutorials / practicals etc. shall be put up on the Notice Board and online Notice Board of the Department and also send a copy of the same to the office of the DUI within 4 days of the date of such notice. A student who is short of attendance may give in writing the reasons for his/her absence from the classes.
- b. If a student does not submit an application in writing within the prescribed time as stated above, or the reasons adduced by the student in his application are not found to be sufficient and justified in the opinion of the Board of Control/ Joint Admission Cell, his admission shall be cancelled.
- c. All the seats thus falling vacant shall be filled strictly in the order of merit from the waiting list or through subsequent counselling before the expiry of the last date fixed for admissions by the University.
- d. When the admission of the student(s) is cancelled as stated above, the Department shall display on the Notice Board and online Notice Board, the list of the person(s) next in the waiting list and make admissions accordingly.
- e. Approval of cancellation of admission and permission to fill up the cancelled seat(s) is to be sought from the DUI.
- For detailed Instructions related to admission, refer to Handbook of Information 2023, likely to be available in the month of June, 2023 at Panjab University website (http://admissions.puchd.ac.in).

INSTRUCTIONS FOR GIVING ANSWERS ON OMR ANSWER SHEET

- All questions are to be attempted on the answer sheet as per instructions printed on the question booklet and OMR Answer Sheet.
- The Answer Sheet is designed for computer evaluation. Please follow the instructions given on the answer sheet strictly otherwise it may make evaluation by the computer difficult. Any resultant loss to the candidate on the above account i.e. not following the instructions completely shall be of candidate only.
- Each question is followed by four answer choices labeled A, B, C and D. Select the answer you think is the best response and darken the bubble bearing the correct response label against the serial number of the question. For example if you think that the answer to question number 2 is D, then mark as follows:

Q. 2 (A) (B) (C)

The Answer marked as under shall be considered as wrong:

or or or or or or \(\mathbb{O} \) \(\

- 4 For marking answers use Black Gel Pen only to darken the corresponding circles.
- If you do not want to answer any question, leave all the bubbles corresponding to that question blank. It will be considered as an unattempted question.
- Be very careful in filling in the bubble in the first instance since erasing or changing it will spoil the response and go to the disadvantage of the candidate.
- 7 In order to open the Question Booklet remove the paper band gently.
- Write your Roll Number on the answer-sheet as also on the Question Booklet, only in the space provided for the purpose and at no other place in the question Booklet and Answer Sheet.
- 9. The use of log tables is permitted, use of Calculator is not allowed.
- 10. Rough work should be done in the space provided for this purpose. No rough work shall be done on the OMR Answer Sheet under any circumstances.
- 11. Penalty for wrong answers (**Negative marking**) will be applied i.e. marks will be deducted for wrong answers. If for each correct answer 1 mark is to be awarded, for a wrong answer ½ marks will be deducted. For example, these marks will be calculated as under:
 - P = Number of correct answers.
 - Q = Number of wrong answers
 - R = Number of unattempted questions

(An unattempted question means all the bubbles corresponding to that question are left blank).

It will also be checked that P + Q + R = Total marks allotted to the Paper.

Final Score = P - 1/4 Q (calculated to the second place of decimal)

SAMPLE QUESTIONS

Sample Questions for LL.M.

Part - I: Constitutional Law and Current Affairs

- The doctrine of "Basic Structure of the Constitution" was propounded by the Supreme Court of India in
 - A) Shankari Prasad v. Union of India, AIR 1951 SC 458
 - Golaknath v. State of Punjab, AIR 1967 SC 1643
 - C) Kesavananda v. State of Kerala, AIR 1973 SC 1461
 - Minerva Mills v. Union of India, AIR 1980 SC 1789
- The President of India may make a proclamation under Article 356 as to the breakdown of constitutional machinery in a State.
 - When he is personally satisfied as to them circumstances.
 - When he is advised by the Prime Minister to do so.
 - C) When he is advised by the Union Council of Ministers.
 - D) When he receives a report from the Chief Election Commission.
- The President of India, in the matters of 3. appointment of Judges of a High Court:
 - A) Is not obliged to consult any Judge of Supreme Court or High Court.
 - B) Is bound by the advice of the Governor of a State
 - C) Must give primacy to the opinion of the Chief Justice of India.
 - Is not bound to consult the Chief Justice of India.
- Right to education has been included in the constitution by

 - A) 86th Amendment B) 100th Amendment C) 87th Amendment D) 94th Amendment

- 5. Ordinance can be promulgated by the president of India if.
 - Both the Houses of Parliament are in session
 - Both the Houses of Parliament are not in session
 - Either of the Houses is not in session.
 - None of the above.
- 6. How many amendments have been carried out in constitution of India?
 - 109
 - B) 106
 - C) 99
 - D) 94
- 7. Constitution 103rd Amendment has amended which articles of the Constitution?
 - A) 14 & 15 B) 15 & 16
 - C) 14 & 16 D) 14, 15 & 16
- 8. The attempt to suicide is no more punishable. Which section of the IPC was declared unconstitutional and hence void by the Supreme Court in April, 1994?
 - A) 302
 - B) 303
 - C) 304
 - D) 309
- 9. The newly elected President of USA Barack Obama belongs to which political party.
 - A) Republican
 - B) Democratic.
 - Communist
 - D) None of the above
- 10. Since August 1994, the rupee has been made fully convertible in:
 - A) The capital account
 - B) The capital and saving account
 - C) The saving account
 - D) The current account

Part- II: Substantive Law

Commercial Law (Law of Contract and Company Law)

- A contract entered into without 'Free Consent' is:
 - A) Void
 - B) Voidable
 - C) Valid
 - D) Illegal
- 2. Property insurance is a contract of :
 - A) Indemnity
 - B) Contingent contract
 - C) Wagering agreement
 - D) Guarantee
- 3. Creditor, on default by the principal debtor, can file suit against:
 - A) Secured property
 - B) Principal debtor alone
 - C) Surety and principal debtor;
 - D) All the above jointly.

Family Law

- Which of the following is valid marriage under the Hindu Marriage Act. 1955?
 - A) H, a male Hindu aged 35 marries
 W who is a deserted wife of B,
 who had filed a suit for divorce
 and suit is still pending
 - B) H, a male Hindu aged 36 marries a second wife with the consent of his first wife who has not been able to have a child for the last 10 Years
 - H, a Brahmin Male aged 30, marries a Buddhist girl aged 18
 - D) H, an idiot male Hindu aged 27 marries W, a Hindu female Lunatic
- Which of the following is valid adoption under the Hindu Adoption & Maintenance Act, 1956?
 - A) H, a male Hindu aged 26 adopts a daughter aged 6
 - B) H, a male Hindu and his wife adopt a son aged 16
 - C) H, a male Hindu aged 40 adopted a son aged 5, after his natural born son migrated to the U.S.A.
 - D) H, a Hindu bachelor aged 25 adopts a son aged 3

- 4. A company is a Government Company only if :
 - All the shares of the company are held by Central or State Government;
 - B) At least 25% of Shares are held by Central or State Government;
 - Majority of Shares are held by Central or State Government or both;
 - D) Majority of Directors are appointed by the Central or State Government
- Annual general meeting of a company is to be held with a gap between two consecutive meetings of successive Years;
 - A) Of not more than twelve month;
 - B) Of not more than twenty four months;
 - C) Of not more than fifteen months;
 - D) Any time but less than twenty four months
- 3. Which of the following is Hindu under the Hindu Law?
 - A) A is born of Hindu father and Christian mother and brought up as a Christian
 - B) A is born of Hindu father and Buddhist mother
 - A is born of Muslim father and Parsi mother'
 - D) A is born of Christian father and Muslim mother
- 4. Which of the following relatives will succeed to the Property of H, a Hindu male under the Hindu Succession Act 1956 after his death?
 - A) Daughter

C)

- B) Father D) Sister
- Brother
- 5. Which of the following is SAHI NIKAH (valid marriage) under the Mohammedan Law?
 - A) M, a Mohammedan male aged 30 married W, a Muslim woman undergoing Iddat
 - B) M, a Mohammedan male aged 27, married W, a Muslim woman in a desert, without any witness
 - M, a Mohammedan male aged 35, married his wife's sister
 - M, a Mohammedan male aged 41, married W, a Muslim female aged 21 as second wife without the consent and against the wishes of his first wife

Law of Torts

- 1. The defense of *Volenti non fit injuria* is available in :
 - A) Rescue cases
 - B) Help cases
 - C) Negligence cases

- 4. Malice/evil motive is relevant in :
 - A) Negligence
 - B) Defamation
 - C) Vicarious Liability
 - D) Nuisance

- D) Unlawful acts
- 2. The test of reasonable foreseeability was laid down in:
 - A) Re Polemis case
 - B) Donoghue v. Stevenson
 - C) Rylands v. Fletcher
 - D) Ashby v. White
- 3. There is physical harm to the plaintiff in:
 - A) Assault
- B) Defamation
- C) Nervous shock these
- D) None of

Legal Theory

- 1. Who observed that International Law is the vanishing point of jurisprudence?
 - A) Austin
- B) Salmond
- C) Starke
- D) Holland
- Identify the Jurist who defined Law as "the form of the guarantee of the conditions of life of society, assured by the states' power of constraint":
 - A) Roscoe Pound
- B)

- Holmes Ihering
- D) Salmond
- 3. Realist theory of law emphasizes on:
 - A) Social function of law
 - B) Human factors in law
 - C) Social criterion of validity of law
 - D) Essentiality of law for social life

Public International Law

- 'International Law may be defined in broad terms as the body of general principals and specific rules which are binding upon the members of the international community in their mutual relations'
 - A) Oppenheim B) Lawrence
 - C) Brierly D) Fenwick
- 'The duties and rights of the States are only the duties and rights of men who compose them':
 - A) Kelsen B) Westlake
 - C) Hall
- D) Starke
- 'A State is, and becomes an international person, through recognition only and exclusively':
 - A) Oppenheim
 - B) Anzilotti
 - C) Holland
 - D) Pitt Corbett

- 5. Tort is:
 - A) A wrong against the Society
 - B) Statutorily defined in the Limitation Act
 - C) A codified branch of law
 - D) A civil wrong based on the agreed obligations
- 4. According to Hohfield, the jural opposite of 'Power' in the context of his analysis of legal right in the wider sense is:
 - A) Liability
 - B) Disability
 - C) Duty
 - D) Immunity
- Possession is said to be ownership on the defensive by :
 - A) Savingny
 - B) Salmond
 - C) Ihering
 - D) Gray
- "The rebus sic stantibus doctrine is one of the enigmas of International Law" who said
 - A) Starke
 - B) Edward Collin
 - C) Oppenheim
 - D) Anzilotti.
- 'From the theoretical point of view, the provision for applying 'the General Principles of Law' has been regarded as sounding the death-knell of positivism':
 - A) Lauterpacht
 - B) C.C.Hyde
 - C) Starke
 - D) Triepel

Indian Penal Code

- P, a Pakistani, fires at A, an Indian, standing on the no-man's land. A runs and dies on the Indian territory:
 - A) P has committed no offence
 - B) P is liable for murder
 - C) P is liable for attempt to culpable homicide
 - D) P is liable for attempt to grievous hurt.
- 2. With an intention to kill B administers sugar mistaking it for arsenic:
 - A) P has committed no offence
 - B) P is liable for attempt to murder
 - C) P is liable for culpable homicide
 - D) P is liable for grievous hurt.
- P intentionally gives a sword cut to A. A subsequently dies of septic meningitis which developed on account of use of wrong remedies and neglect of treatment:

Transfer of Property Act

- 1. Which of the following is a non-transferable property under the T.P.Act:
 - A) Actionable claim
 - B) Mortgagor's right to redeem
 - C) Lessee's right under the lease
 - D) Right of an occupancy tenant
- The Supreme Court has held, that the rule of lis pendens equally applies to involuntary transfers, in the case of
 - A) Kedar Nath Vs. Sheo Narain AIR 1970 S.C. 1717
 - B) Narayana Rao Vs. Basavarajappa AIR 1956 S.C.727
 - C) Vidhyadhar Krishnarao Mungi Vs. Usman Gani Saheb AIR 1974 S.C.685
 - D) Beepathuma Vs. Velasari Shankra-Narayana Kadambolithaya AIR 1965 S.C.241

- A) P is liable for murder
- B) P is liable for culpable homicide
- C) P is liable for grievous hurt
- D) P is liable for simple hurt
- P, a stoutly built man comes with a lathi in his hand. P picks up the bag of A who being weak person does not resist:
 - A) P is liable for theft
 - B) P is liable for robbery
 - C) P is liable for extortion
 - D) None of the above
- P threatens A with a pistol and puts his hand in A's pocket which is empty :
 - A) P has committed no offence
 - B) P is liable for attempt to theft
 - C) P is liable for attempt to robbery
 - D) P is liable for attempt to extortion
- 3. Where a mortgagor personally binds himself to repay; the mortgage money by a certain date and possession of the property is delivered to the Mortgagee, the mortgage shall be recognized as:
 - A) Simple mortgage
 - B) English mortgage
 - C) Usufructuary mortgage
 - D) Anomalous mortgage
- 4. The Transfer of Property Act applies to transfers :
 - A) By operation of Law
 - B) By act of parties
 - C) By the Government
 - D) By parties who are Muslims
- The rule that every transaction involving transfer of property is to be treated as single unit is the basis of
 - A) The rule of apportionment
 - B) The rule of *lis pendens*
 - C) The rule of election
 - D) The rule of contribution

- **Industrial Disputes Act**
- 1. The Industrial Disputes Act, 1947 aims at :
 - Providing social security benefits to the workmen
 - B) Regulating conditions of work in industries
 - C) Investigation and settlement of industrial disputes
 - D) Regulating the employment of women during certain periods
- 2. Retrenchment means :
 - A) Refusal by an employer to continue to employ a workman
 - B) Termination by the employer of the service of a workman for any reason whatsoever
 - C) Inability on the part of employer to provide employment to the workman
 - D) Voluntary retirement of a workman

- The power of the Appropriate Government under Section 10 to refer industrial disputes for adjudication is:
 - A) An administrative power
 - B) Legislative power
 - C) Judicial power
 - D) Quasi-judicial power
- 4. Lockout is:
 - A) For trade reasons
 - B) An act on the part of employer taken to coerce or pressurize the labour
 - C) Not an intentional act
 - D) Not concerned with industrial dispute
- 5. Strike means:
 - A) Mere cessation of work
 - Cessation of work under common understanding
 - C) Cessation of work coupled with gherao of management
 - D) Slowing down production

Sample Questions for Master of Computer Applications (MCA)

- 1. Which of the following is NOT a language processor?
 - A) Compiler
 - B) Loader
 - C) Interpreter
 - D) Assembler
- 2. Which of the following is NOT an Internet protocol?
 - A) LTP
 - B) SMTP
 - C) HTTP
 - D) ATM
- The sequence that is in ascending order in size is
 - A) bit, word, byte, nibble
 - B) nibble, byte, bit, word
 - C) nibble, bit, word, byte
 - D) bit, nibble, byte, word
- Total number of ways in which four boys and three girls can sit in a row so that boys and girls have alternate seats is
 - A) 72
 - B) 144
 - C) 288
 - D) 720
- If the word MANMOHANWASHERE corresponds to ZOAABVNBJOFVRFR, then the word that corresponds to LRF is
 - A) HEY
 - B) MAN
 - C) GOT
 - D) YES

- 6. Two persons Ram and Shyam sort the letters at constant rate. Ram sorts L letters in 60 minutes while Shyam takes 30 minutes to sort L letters. The total time taken by both of them in sorting L letters working together but independently is
 - A) 10 min
 - B) 20 min
 - C) 15 min
 - D) 45 min
- The remainder obtained on dividing 2¹⁶⁸⁰ by 1763 is
 - A) 1
 - B) 3
 - C) 13
 - D) 31
- 8. The area bounded by the curve, $y=(x+1)^2$, its tangent at (1, 4) and the x-axis is
 - A) 1/3
 - B) 2/3
 - C) 1
 - D) 4/3
- 9. The median of 25,13,4,6,3,11,15,10 is
 - A) 4.5
 - B) 6.0
 - C) 10.5
 - D) 5.0

Sample Questions for M.A. Journalism and Mass Communication

| 1. a) b) c) d) | Amerio Budge Patriot | about 150 words each on any can Presidential elections t 2008-09 ism in Indian Cinema ı Olympics 2008 | two of the fol | lowing: | (16 Marks) | |
|----------------------------|---------------------------------|---|---------------------------|---------------------------|---|-----|
| 2. | Write a A) B) C) D) | about 150 words each on any Dr. Manmohan Singh Young Turks in Indian Pol Your role model Sachin Tendulkar | | low listed p | personalities: (16 Marks) | |
| 3. | Exhibit each:- a. b. | | in fighting co | rona virus | against any one of the below listed motions in 100 wo (13 Marks) a compared to developed countries. ared in virtual world. | rds |
| 4. | | ENT AFFAIRS: e one option to answer the qu | estions: | ov the TIMI | (10 Marks) E magazine as the 'Person of the Year 2019'? | |
| | A) C) | Greta Thumberg Narendra Modi | | B) D) | Rahul Gandhi Donald Trump | |
| | 2. A) | Which among the follow treatment? Pakistan | ing countries | has intro | oduced VISA exemption for foreigners seeking medi | ica |
| | C) 3. | | | | China s constituted an administrative council to fulfill all | the |
| | A) C) | government functions. Wh GC Murmu Amit Shah | o will Chair tr | B) D) | R K Mathur Rajnath Singh | |
| | 4. A) C) | Google has launched a ne Google Arcadia Google Playmates | w cloud-base | ed game st B) D) | treaming service. What is the name of the game service Google Stadia Google Nixplay | }? |
| | 5. A) | | ter has been | , | om the sport for five years? Mushfiqur Rahim | |
| | C) 6. | Shahadat Hossain Who announced that the I | NRC process | D) will be car | Liton Das rried out across India and over all citizens? | |
| | A) C) | P M Narendra Modi President Ram Nath Kovi | • | B) D) | Defence Minister Rajnath Singh Home Minister Amit Shah | |
| | 7. A) B) | Germany will achieve its of 2025 2035 | climate goals | by which y B) D) | rear, as per the recently passed Climate Protection Act? 2030 2040 | ? |
| | 8. A) B) | What was India's rank in t 9 th 24 th | he recently co | oncluded V B) D) | Norld Para Athletics Championship? 13 th 36 th | |
| | 9. A) B) | What is the percentage of 0.46 percent 0.64 percent | growth in roa | ad accident B) D) | ts mentioned in 'Road Accidents in India- 0.50 percent 2.50 percent | |
| | 10. A) C) | President' Colour was rec Indian Naval Academy Indian Army | ently awarded | d to which B) D) | institution on November 20? Indian Air Force All of the above | |
| 5. | | RAL KNOWLEDGE e one option per question to a | inswer the fol | lowing Mul | (10 marks) Itiple Choice Question: | |
| | 1. A) B) C) D) | Which was Rishi Kapoor's Mera Naam Joker. Bobby Karz Amar, Akbar Anthony | s first film as a | ı lead acto | r? | |
| | 2. A) C) | The Ashes is associated v Football Cricket | with the game B) D) | of Volley Ba Hockey | all | |

| 3. | Headquarters of United Natio | ns are situ | iated at |
|----------------------------|---|--------------|---|
| A) | New York | B) | Geneva |
| C) | Vienna | D) | Paris |
| 4. | Who has never been the Pres | sident of Ir | ndia? |
| A) | Zakir Hussain | B) | Pratibha Patil |
| C) | Sardar Vallabhbhai Patel | D) | V. V. Giri |
| 5. | Former PM Manmohan Singh | n has an ad | cademic background in |
| A) | History | B) | Political Science |
| C) | Geography | D) | Economics |
| 6. | Who was the first Indian to wa | alk on the | moon? |
| A) | Kalpana Chawla | B) | Ravish Malhotra |
| B) | Raja Chair | D) | Rakesh Sharma |
| 7. | World Environment Day is ce | lebrated a | nnually on which date? |
| A) | May 01 | B) | June 05 |
| C) | August 14 | D) | January 01 |
| 8. A) B) C) D) | The Ukrainian President, Vol- Medicine Acting Engineering Defence | odymyr Ze | lenskyy's former career was in which field? |
| 9. | Terms such as 'Hydra', Alpha | abay', RAM | IP, pertain to which of the following? |
| A) | Dark Web | B) | Navy |
| C) | Astronomy | D) | Economics |
| 10. | World Press Freedom Day is | celebrated | d on which date every year? |
| A) | April 30 | B) | May 3 |
| C) | April 19 | D) | June 15 |

SAMPLE QUESTIONS FOR MASTER OF PUBLIC HEALTH

Q1) Which is the source of Chlorofluorocarbons?

- Thermal Power Plants A.
- B. Automobiles
- Refrigeration and Air conditioning C.
- Fertilizers D.

Q2) Among cereals and millets richest source of calcium is:

- Rice A.
- B. Bajra
- Maize C.
- Ragi

Q3) Bissinosis is common in:

- Farmers
- Textile Industry В.
- Gold mine C.
- D. Cement factory

Q4) The most populous state in India is:

- Uttar Pradesh A.
- B. Bihar
- C. Madhya Pradesh
- D. Kerala

Q5) A doctor suggested to a couple not to have more than one child because of

- Rh+ male Rh- female
- Rh- male Rh+ female
- Rh+ male Rh+ female C.
- Rh- male Rh- female

- Q 6) Acquired immunity is found in
 - Invertebrates
 - В. Vertebrates
 - C. Some Invertebrates
 - Both vertebrates and invertebrates

Q 7) The incubation period of rabies ranges from -

- A. 1 to 2 days
- 3 to 4 days B.
- 5 to 6 days C.
- 10 days to 1 Year

Q 8) At birth immunization required is

- BCG and OPV-O DPT-1
- B.
- DPT-1 and OPV-1 C.
- Measles

Q9) Anthracosis is caused due to

- Coal Dust A.
- B. Silica
- Fe C.
- D. Tobacco

Q 10) Gini Index is associated with

- Distribution of diseases
- Distribution of Income
- Distribution of deaths C.
- Distribution of pollutants

SAMPLE QUEST'IONS FOR M.A. (English)

I. Write an essay within 400 words, taking a position 'For' or ' Against' on the topic given below:

The study of humanities is essential today.

OR

India has a bright future.

(25 marks)

II. Read the poem below and answer the questions that follow:

My Heart Leaps Up

My heart leaps up when I behold A rainbow in the sky; So was it when my life began; So is it now I am a man; So be it when I shall grow old, Or let me die! The Child is father of the Man; And I could wish my days to be Bound each to each by natural piety.

- A. The poet could have used some other word instead of 'behold'. Why is this word used?
- B. Point out any literary device (s) from the poem.
- C. Explain the meaning of line number seven in your own words.
- D. Suggest a title of the poem, and give its justification

(20 marks)

III. Write a précis of the passage given below, reducing it to one-third of its length. Give a suitable title. Make sure you write one word in each box in the answer sheet:

In response to the food crisis of the mid-1960s, the government changed its agricultural strategy. Rather than holding out for the reform of agrarian institutions, it began to guarantee higher crop prices to farmers and utilize subsidies to promote use of modern inputs such as chemical fertilizers and high-yielding varieties of grain developed in other parts of the world. The resulting surge of production – the so-called "green revolution "of the late 1960s – made the country self-sufficient in food grains. The strategy was controversial because it increased economic disparities aont the farmers, for the greatest chance of success, the government had to focus its strategy on the irrigated sections – the very parts of the country that were already doing relatively well. The uptake of subsidized inputs was also the highest among large landowners, owing to their greater education, credit worthiness, and the ability to bear the risk posed by adopting new methods. The strategy did not do much to alleviate the economic condition of the agrarian poor, other than providing the indirect benefit of living in a country with better overall food security that has not since experienced famine. Micronutrient deficiencies (not caloric) such as anemia are today a bigger problem among the poor, and the country's health indicators lag behind those of other countries with comparable levels of income.

The strategy toward industry, however, turned more interventionist after 1965. Elaboration of all the reasons for this need not detain us here; there is a strong case that the interventionist turn was a cynical ploy by new Prime Minister Indira Gandhi for consolidating her power in response to certain political developments. The new policy stance displayed a suspicion of large firms and a preference for the small. The licensing system imposed additional restrictions on the activities of large firms, curtailing their growth. Under a policy that was one of a kind, consumer goods such as apparel, footwear, furniture, sporting goods, office supplies, leather goods, and kitchen appliances were reserved by law for production by small firms. Foreign firms were asked to dilute their ownership stake in their Indian subsidiaries and in response, multinationals such as IBM and Coca-Cola closed their operations and left the country.

To the extent that the success of the large firms was due to their superior technical or organizational capacity, the curtailment of their growth meant that such capacity remained underutilized. Delays and arbitrariness in the issuing of industrial licenses resulted in supply bottlenecks and shortages of many consumer goods. For example, in the 1970s, there was an eight-year waiting list for people wanting to buy a scooter, the preferred vehicle for middle-class Indians.

The reservation of consumer goods for small enterprises meant that the benefits of economies of scale were forgone, resulting in the production of poor-quality and high priced goods that foreigners shunned and domestic consumers had no choice but to accept. Meanwhile, countries such as South Korea and Taiwan were growing rich by exporting this very category of goods. It was during this time that Indians developed a craze for foreign products, the imports of which were restricted, and the term imported" became synonymous with "high-quality."The result of such policies was economic stagnation. The country's per capita income grew by an average of less than 1 per cent a year between 1966 and 1980, a rate that was too low to make a dent in the country's massive poverty. Thirty-five years after independence, India's leadership had yet to achieve, to any significant degree, its pledge of lifting living standards.

(15 marks)

- IV. Write short notes on any three (in not more than 150 words each):
 - 1. Define allegory and give examples of modern allegories
 - 2. Gothic novel
 - 3. Steam-of-consciousness ad Technique in modern fiction
 - 4. Pre-Raphaelite poetry
 - 5. Literary sublime.

(15 marks)

SAMPLE MULTIPLE CHOICE QUESTIONS FOR M.A. (GEOGRAPHY)

- The temperature of Thiruvananthapuram is lower than that of Mumbai in May and higher than that of Mumbai in January because:
 - A) Thiruvananthapuram has a cold current and Mumbai a warm current
 - B) Thiruvananthapuram has higher rainfall in summer and it is closer to the equator.
 - C) Thiruvananthapuram is on the windward side and Mumbai is on the leeward side.
 - D) Thiruvananthapuram is thickly vegetated while Mumbai is not
- Which of the following is not a characteristic of a barkhan?
 - A) Its horns point in a down wind direction.
 - B) It has a crescent shape
 - C) Its windward slope is concave
 - D) It moves in the direction of the wind.
- 3. If the number of a Survey of India topographical sheet is 53 E/1, it's scale is:
 - A) 1:25 000
 - B) 1:50 000
 - C) 1:250 000
 - D) 1:5000
- 4. Coral reefs are to be found in:
 - A) Polar latitudes
 - B) Tropical latitudes
 - C) Temperate latitudes
 - D) All of the above
- The age and sex composition of the population is best represented by
 - A) Choropleth
 - B) Isopleth
 - C) Pie Diagram
 - D) Pyramid Diagram

- 6. Which of the following is an antecedent river?
 - A) Beas
 - B) Satluj
 - C) Ravi
 - D) Jhelum
- Representative Fraction is a method used for showing
 - A) Scale on the map
 - B) Direction on the map
 - C) Contours on the map
 - D) Distance on the map
- Which of the following is not a method used for finding north
 - A) Pole Star method
 - B) Similar Triangles method
 - C) Watch method
 - D) Rod method
- 9. Following is an example of cold desert
 - A) Sahara
 - B) Kalahari
 - C) Gobi
 - D) Mojave
- Mercator's Projection was used primarily for drawing
 - A) Distribution Maps
 - B) Political Maps
 - C) Navigational Maps
 - D) Cadastral Maps

SAMPLE MULTIPLE CHOICE QUESTIONS FOR MASTERS IN DISASTER MANAGEMENT

- 1. Spread of epidemics is associated with
 - A) Floods
 - B) Landslides
 - C) Earthquake
 - D) Volcanic Eruption

- 2. The switching over from the use of diesel to CNG is important because:
 - A) CNG is cheaper than diesel
 - B) Diesel is polluting fuel and CNG in non-polluting fuel
 - C) CNG is easily available

- D) CNG is a non renewable resource
- Which of the following is caused due to water contamination?
 - A) Oral Cancer
 - B) Hypertension
 - C) Gastroenteritis
 - D) Tuberculosis
- Which of the following is a conventional source of energy?
 - A) Solar Energy
 - Thermal Energy
 - Tidal Energy
 - D) Wind Energy
- Which of the following is a primary activity?
 - A) Teaching
 - B) Retail trade
 - C) Mining
 - D) Tailoring
- RIO-10 (The World Summit for Sustainable Development) in 2002 was held at
 - A) Keo Karo (India)
 - B) Johannesburg (South Africa)
 - C) New York (USA)
 - D) Melbourne (Australia)

- Approximately 71% surface of earth is covered with water bodies, ice caps and glaciers that is why earth is also known as:-
 - A) Blue Planet
 - B) Green Planet
 - White Planet C)
 - D) Yellow Planet
- Which of the following is eco-friendly way of managing kitchen waste?
 - Open dumping
 - B) Land filling
 - C)
 - Burning Vermi Composting D)
- Indian Cheetah and Dodo bird are:
 - Vulnerable species A)
 - B) Extinct species
 - C) Threatened species
 - D) Rare species
- 10. Harike wetland is located on confluence of which two rivers?
 - A) Ganga-Yamuna
 - B) Chandra-Bhaga
 - Ganga-Brahmaputra
 - D) Beas-Satluj

SAMPLE MULTIPLE CHOICE QUESTIONS FOR MASTERS IN GEOINFORMATICS

- 1. Consider the following statements:
 - A The representative fraction of a map = distance on the ground

distance on the map

- B the denominator of the representative fraction is always once
- A) A only
- B) B only
- C) Both A and B
- D) Neither A or B
- Map showing the depths of oceans and seas is termed as:
 - A) Ethnographic map
 - B) Orographic map
 - C) Bathymetric map
 - D) Geological map
- 3. Which one of the following is the largest scale of map?

A) 1:10 000 B) 1:50 000

C) 1: 100 000

D) 1:1000 000

- 4. Kaziranga is famous for:
 - A) Great Indian Bustard
 - B) One horned rhino
 - C) Cheetah
 - D) Ostrich
- In the topographical sheet settlements are represented by
 - A) Green Color
 - B) White Color
 - C) Red Color
 - D) Black Color
- 6. Silent Valley is located in
 - A) Kashmir
 - B) Kerala
 - C) Uttaranchal
 - D) Tamil Nadu
- 7. Which of the following is a perspective projection?

- A) Cylindrical Equal Area
- B) Bonne's Projection
- C) Gnomonic Projection
- D) Sinusoidal Projection
- 8. The point vertically below the camera lens in a photograph is called:
 - A) Ground point
 - B) Principal point
 - C) Isocenter
 - D) Ground nadir point
- 9. Which one of the following is the smallest scale of map?

A) 1: 10 000

B) 1:50 000

C) 1: 100 000

D) 1: 1000 000

- 10. Output Device of a computer is:
 - A) Keyboard
 - B) Printer
 - C) Monitor
 - D) Speaker
- 11. Pixel refers to
 - A) Picture element
 - B) Picture effect
 - C) Perfect element
 - D) Primary element
- 12. The term GPS refers to:
 - A) Global Prevention System
 - B) Global Protection System
 - C) Global Positioning System
 - D) None of the above.
- 13. The term GIS refers to:
 - A) Geographical Informative System
 - B) Global Information System
 - C) Geological Information System
 - D) Geographical Information System

Sample question paper Master of History

- Note: 1. Question No. 1 under Unit-I is compulsory. Attempt any 05 Questions in 80-100 words each. Each question carries 05 marks. (5 x 5 = 25 marks).
 - 2. Attempt any one Question from Unit –II in about 1000 words. Each Question carries 25 marks.
 - 3. Attempt any One Question from Unit-III in about 1000 words. Each Question carries 25 marks.

UNIT-I

Q-I

- i. What is meant by Mahajanpada?
- ii. Explain Dhamma.
- iii. Explain Mansabdari System.
- iv. What was meant by Sangat ?
- v. Who were the Sufis ?
- vi. What is meant by commercialisation of agriculture?
- vii. Explain Doctrine of Lapse.
- viii. Discuss the demand of Punjabi Suba?

UNIT-II

- Q-II Write a note on the agriculture conditions in Ancient India.
- Q-III Comment on the impact on Mohhanmad-Bin-Tuglaq's administrative experiments.
- Q-IV Assess the contribution of the masses in the struggle for Independence.
- Q-V How did Maharaja Ranjit Singh establish the kingdom of Lahore?

UNIT-III

- Q-VI What should be the role of the opposition parties in the Parliament?
- Q-VII Comment on the status of Women in Post Independent India.

Sample Question Paper for Entrance Test for Admission to M.A. Economics

- 1. Which of the following does not represent elasticity of substitution?
- A) Proportionate Change in capital intensity due to proportionate change in MRTS $_{\mbox{\scriptsize LK}}$
- B) Proportionate change in capital intensity due to proportionate change in relative factor prices?
- C) Proportionate change in capital intensity due to proportionate change in relative Marginal productivity of factor.
- D) Proportionate change in capital labour ratio due to Proportionate change in inputs.
- 2. The Haavelmo Theorem is popularly known as:
- A) Income Multiplier
- B) Employment Multiplier
- C) Foreign Trade Multiplier
- D) Balanced Budget Multiplier
- 3. On which of the following argument Keynes agree with classical?
- A) Labour Supply Function
- B) Labour Demand Function
- C) Wage Price Flexibility
- D) Interest rate as real phenomenon.
- 4. The F-statistics in OLS estimation is the test of
- A) Significance of individual regression coefficients
- B) Goodness of fit in the model
- C) Significance of variance of the dependent variable
- D) Significance of the variance of independent variable.
- 5. Which one of the following is not a formula of measuring correlation coefficient?
- A) $b_{yx} \times b_{xy}$

B)
$$r_{xy} = \frac{\sigma_x}{\sigma_y} b_{yx}$$

C)
$$r_{xy} = \frac{\sigma_{xy}}{\sigma_x \times \sigma_y}$$

D)
$$r_{xy} = \frac{\sigma_{xy}}{\sigma_x^2 \times \sigma_x^2}$$

- 6. Look at this series: 53, 53, 40, 40, 27, 27,... What number should come next?
- A) 12
- B) 14
- C) 27
- D) 53
- 7. Look at this series: 15,__,27,27,39,39,... What number should fill the blank?
- A) 51
- B) 39
- C) 23
- D) 15
- 8. NITI Aayog has replaced
- A) Finance Commission of India
- B) Planning Commission of India
- C) Reserve Bank of India
- D) Ministry of Finance
- 9. Chelliah Committee was appointed for
- A) Fiscal reforms
- B) Monetary reforms
- C) Agricultural reforms
- D) Industrial reforms
- 10. Adolph Wagner gave a model of
- A) Industrial Location
- B) Agricultural Transformation
- C) Public Expenditure
- D) Correlation

Sample Question Paper for Entrance Test for Admission to Masters of Social Work

- UNO declared International Women's Year in
 - a) 1970
 - b) 1974
 - c) 1975
 - d) 1979
- 2. Which is not a factor promoting sustainable development?
 - a) Population Stabilization
 - b) Use of Non-Renewable Energy
 - c) Waste Recycling and Reuse
 - d) Conservation of Bio-Diversity
- 3. Which of the following is a Cooperative?
 - a) SEWA
 - b) Green Peace
 - c) AMUL
 - d) MYRADA
- 4. Which one is not an ideal example of social action?
 - a) Chipko movement
 - b) National fishermen's Struggle
 - c) Ram Janma Bhoomi Movement
 - d) Narmda Bachao
- "OPEN HAND MONUMEN" of Chandigarh stands for?
 - a) Friend Ship and Welcome
 - b) Good Luck
 - c) Peace and Reconciliation
 - d) None of these
- 6. International year of the disabled persons was in the year
 - a) 1971
 - b) 1981
 - c) 1991
 - d) 2001
- The Mental Health Act was enacted in the year
 - a) 1986
 - b) 1987
 - c) 1988
 - d) 1989
- 8. The goal of Social Work is
 - (a) To Reduce Social Tensions
 - (b) To Provide Services To All
 - (c) To Promote Social Justice
 - (d) To Service the Elite

- 9. The objective of social reform is
 - (a) To Help A Minority Group
 - (b) To Assist the Marginalized Group
 - (c) To Bring About Social Change
 - (d) None of the Above
- 10. An NGO is registered under
 - (a) Indian Penal Code
 - (b) Society's Registration Act
 - (c) Industrial Tribunal Act
 - (d) ESI Act
- 11. Lucknow is situated on the bank of the river
 - (a) Yamuna
 - (b) Gomti
 - (c) Godavari
 - (d) Ganga
- 12. In which year was 'Quit India Movement' started?
 - (a) 1930
 - (b) 1942
 - (c) 1940
 - (d) 1947
- 13. Which bank issues Currency Notes?
 - (a) State Bank of India
 - (b) Central Bank of India
 - (c) Reserve Bank of India
 - (d) Bank of India
- 14. Ashok Chakra is an award associated with
 - (a) Gallantry
 - (b) Civilian Excellence
 - (c) Music and Fine Arts
 - (d) Sports
- 15. A "class" is chiefly referred as
 - (a) A professional group
 - (b) A social organization
 - (c) An economic category
 - (d) Socially mobile section

SAMPLE QUESTIONS FOR

ME Electrical Engg. (Instrumentation & Control) Regular programme

- Which term applies to the maintaining of a 5. given signal level until the next sampling?
 - 1. Holding
 - Aliasing
 - 3. Shannon frequency sampling
 - Stair-stepping
- 2. What does a Hall Effect sensor sense?
 - A) Temperature
 - B) Moisture
 - C) Magnetic fields
 - D) Pressure
- 3. Two copper-constantan thermocouples are connected such that the two constantan wires are joined together. The two copper wires are connected to the input of a low noise chopper stabilized differential amplifier having a gain of 1000. One of the thermocouple junctions is immersed in a flask containing ice and water in equal proportion. The other thermocouple is at a temperature T. If the output of the amplifier is 2.050V, the temperature T is
 - A) 205℃
 - B) 102.5 °C C) 51.25 °C
 - D) 50°C
- 4. A second order feedback system is found to be oscillating with a high frequency. The oscillations
 - A) Can be reduced by increasing the proportional action.
 - B) Can be reduced by increasing the integral action.
 - C) Can be reduced by increasing the derivative action.
 - D) Cannot be reduced.

- Addressing mode of the instruction-ORL A, @ R0 is:
 - A) Direct
 - A) Indirect
 - C) Register
 - D) Immediate
- 6. Which type of programming is typically used for digital signal processors?
 - A) Assembly language
 - B) Machine language
 - C) C
- 7. D) None of the above

A phase lag compensation coil

- A) Improves relative stability
- B) Increases bandwidth
- C) Increases overshoot
- D) None of the above
- 3. Which one of the following is Programmable Interrupt Controller?
 - A) 8257
 - B) 8254
 - C) 8255
 - D) 8259
- RTDs are typically connected with other fixed resistors
 - A) In a pi configuration
 - B) In a bridge configuration
 - C) And variable resistors
 - D) And capacitors in a filter-type circuit
- 10. For a first order instrument a 5% settling time is equal to
 - 1. Three times the time constant.
 - 2. Two times the time constant.
 - C) The time constant.
 - D) Time required for the output signal to reaches 5% of the final value.

Sample Questions for

M.E. (Electronics and Communication Engineering) Regular Programme

| | M.E. (Electronics and Communication | ,,, – ,,,8 | jineering/ negalar i rogramme |
|--|---|-------------------|---|
| 1. | Which rectifier requires four diodes? A) half-wave voltage doubler B) full-wave voltage doubler C) full-wave bridge circuit D) voltage quadrupler | 6. | The Boolean function Y=AB + CD is to be realized using only 2 inpute NAND gates. The minimum number of gates required is A) 2 B) 3 C) 4 |
| 2. | If the input is a rectangular pulse, the output of an integrator is a A) Sine wave B) Square wave C) Ramp D) Rectangular pulse | 7. | D) 5 Which device is considered a current controlled device: A) Diode B) Filed effect transistor C) Transistor |
| 3. | The energy gap in a semiconductor A) Increases with temperature B) Does not change with temperature C) Decreases with temperature D) Is zero | 8. | D) Resistor In an amplifier, the emitter junction is A) Forward Biased B) Reverse Biased C) Grounded D) Shorted |
| 4. | The LASER diode sources require A) Spontaneous emission B) Absorption C) Stimulated emission D) None of the above | 9. | Unijunction Transistor has three terminals, A) Cathode, Anode, Gate B) Grid, Plate, Cathode C) Base 1, Base 2, Emitter |
| 5. | 2's complement representation of a 16-bit number (one sign bit and 15 magnitude bits) is FFFF. Its magnitude in decimal representation is A) 0 B) 1 C) 32, 767 D) 65, 565 | 10. | D) Gate, Base 1, Base 2 |
| ; | Sample Questions for M.E. (Computer Sci | ience (| & Engineering) Regular Programme |
| info A) B) C) D) Sev san A) | rmation about variables and their attributes? Abstract Syntax tree Symbol Table Variable value stack Parse tree | ek. Wh | e in a compiler that is responsible for managing at is the probability that they all occurred on the |
| Wh A) B) C) | ich of the following statements is false As unambiguous grammar has same leftmoden An LL (1) parser is top down parser LALR is more powerful than SLR An ambiguous grammar can never be LR (I | ost and | |
| voic {int Var Prir A) | nat will be the output of the following program f main() var 1 = 10, var2 = 20, var3; 3 = var1++ + ++var2; itf("%d%d%d", var1, var2, var3);} 10 20 30 B) 11 21 31 10 21 30 D) 11 21 30 | 1? | |

5. Which of the following data structures will allow mergesort to work in $O(n\log n)$ time?

1.

2.

3.

4.

- I. A singly linked list
- II. A doubly linked list
- III. An array
- A) III only
- B) I and II only
- C) II and III only
- D) I, II and III
- In the internet Protocol (IP) suite of protocols, which of the following best describes the purpose of the Address Resolution Protocol?
 - A) To translate Web addresses to host names
 - B) To determine the IP address of a given host name
 - C) To determine the hardware address of a given host name
 - D) To determine the hardware address of a given IP address
- The binary relation $R = \{ (1,1), (2,1), (2,2), (2,3), (2,4), (3,1), (3,2), (3,3), (3,4) \}$ on the set $A = \{1,2,3,4\}$ is:
 - reflexive, symmetric and transitive
 - neither reflexive, nor irreflexive but transitive
 - irreflexive, symmetric and transitive
 - D) irreflexive and antisymmetric
- Consider the following statements:
 - First-in first-out types of computations are efficiently supported by STACKS
 - Implementing LISTS on linked lists is more efficient than implementing LISTS on an array for (ii) almost all the basic LIST operations
 - (iii) Implementing QUEUES on a circular array is more efficient than implementing QUEUES on a linear array with two indices
 - (iv) Last – in – first – out type of computations are efficiently supported by QUEUES
 - (ii) and (iii) are true A)
 - B) (i) and (ii) are true
 - (iii) and (iv) are true C)
 - (ii) and (iv) are true
- A binary search tree is generated by inserting in order of following integers 50,15,62, 5, 20, 58, 91, 3, 8, 37, 60, 24

The number of nodes in the left subtree and right subtree of the root respectively is

- A) (4, 7) B) (7, 4)
- C) (8, 3)
- D) (3, 8)
- 10. A directed graph with n vertices and e edges are represented by Adjacency matrix. What is the time required to determine the in-degree of a vertex?
 - A) O(e)
 - B) O(n)
 - C) $O(n^2)$
 - D) O (e+n)

Sample Questions for

ME Civil Engineering (Construction Technology & Management) Regular Programme

| Q.1. | | | inertia of ts length | | m thin rod | of mass | M and le | ngth (I) a | bout its m | nid-po | int a | and |
|--------|--------------------------------------|--------------------------------------|--|-----------------------|---|-------------------------------|----------------------|----------------------|---------------------|--------|-----------|-------------------------------|
| | (a) 2 N | 11 ² (b) | <u>1</u> MI ² 3 | | (c) | <u>3</u> MI ² 4 | | (d) | <u>4</u> MI 3 | | | |
| Q.2. | The poir (a) (c) | Shear fo | raflexure orce chan orce is ma | ges sigr | | (b) (d) | | | changes is maxim | | | |
| Q.3. | | | tendency ipe shoul | | ration at tl | nroat in a | venturim (c) 4 3 | eter, the | ratio of th | (d) | meto 2 | er at throat to 1 to 1 |
| Q.4. | | Non-reg | of silting i ime secti e head re | on | | (b) All of the | Inadequ ese | ıate slope |) | | | |
| Q.5. | Weight (a) (c) | Passing | le affects sight dis nt thickne | tance | | (b) (d) | Extra wi | | | | | |
| Q.6. | relative | | f this sar | | | | | | | | | is 0.30. If the sample at its |
| Q.7. | | gonal tens Diagona | sion in co Il tension tension r | ncrete o | an be resi ement | isted by p | | | einforcem e | | | |
| Q.8. | Rivet va (a) (b) (C) (d) | Strength Minimur | of a rive of a rive n of the v | t in bear alue obt | | | | | | | | |
| Q.9. | Rise and (a) (c) | d fall met Profile le Check le | | ed in | | (b) (d) | Differen Non of t | tial levelii hese | ng | | | |
| Q. 10. | The alka (a) (b) (c) (d) | Leaves Leaves | pores and high pow he brick b | d makes der dep | cks, absor the bricks osit on the d weak | porous | ure from t | he air wh | ich on dr | ying | | |

Sample Questions for ME Mechanical Engineering (Manufacturing Technology) Regular Programme /

| Q.1. | An inerti (a) (b) (c) (d) | ial frame of reference has Fixed origin but directions of axes can change with time Fixed origin as well as fixed directions of its axes Fixed directions of axes but origin can change with time Any of the above |
|------|---------------------------------------|--|
| Q.2. | Dimensi (a) (b) (c) (d) | onal formula for Young's modulus of elasticity is ML ⁻¹ Tr ⁻² MLT ⁻² M ¹ L ⁻¹ Tr ⁻¹ ML ⁻² T ⁻² |
| Q.3. | | of the following processes would be best suited for stress relieving, improving eability and ductility in casting and deep drawn components Austempering Tempering Normalising Annealing |
| Q.4. | The pres (a) (b) (c) | ssure intensity at a point in a fluid is same in all directions, only when The fluid is frictionless The fluid is frictionless and incompressible The fluid has zero viscosity and is at rest |
| Q.5. | In ortho | gonal cutting, cutting face is inclined to the direction of cut at |
| | (a) (b) (c) (d) | 90 degree Less than 90 degree Between 30 and 45 degrees Greater than 90 degree |
| Q.6. | In statis (a) (b) (c) (d) | tical quality control \pm 3 σ means the percentage of items within acceptable limits will be: 68.26 95.46 99.73 50 |
| Q.7. | In the sp (a) (b) (c) (d) | Decification of fits Allowance is equal to twice the tolerance Allowance is equal to half of tolerance Allowance is independent of tolerance Allowance is equal to the difference between maximum material limit mating parts. |

M.Com (Master of Entrepreneurship and Family Business) (MEFB)

Part A: Verbal ability/Reasoning

- 1. Disease: Health:: Freedom:?
 - A) Slavery
 - B) Pleasure
 - C) Plight
 - D) Beauty
- 2. If you are going to west in the afternoon, the sun will be visible at your left.
 - A) Never
 - B) Always
 - C) Sometimes
 - D) Often
- Fill in the blank with the most suitable alternative. He shouted at the subordinate.
 - A) Loud
 - B) Loudly
 - C) Loudely
 - D) Loudingly

Part B: General Knowledge

- In which organ of the human body would you find a cluster of cells which produce insulin?
 - A) Bile
 - B) Liver
 - C) Pancreas
 - D) Brain
- 2. Which area in India is the only breeding ground of the flamingo?
 - A) Rann of Kutch
 - B) North East
 - C) Himalayas
 - D) Bay of Bengal
- 3. Which was the first Capital of Pakistan?
 - A) Karachi
 - B) Lahore
 - C) Islamabad
 - D) Peshawar
- Which Olympic did Milkha Singh break the world record in the 400 metres event.
 - A) Rome
 - B) Athens
 - C) Beijing
 - D) None of the above
- 5. Kuchipudi is a dance form of
 - A) Tamil Nadu
 - B) Orissa
 - C) Kerala
 - D) None of the above

Part C: Data Interpretation

According to the survey of 2000 educated unemployed persons in which 1200 were men and 800 were women, the following data were collected.

| Qualification | Unemployed Men | Unemployed Women |
|------------------|----------------|------------------|
| Doctors | 12.5% | 15% |
| Engineers | 20.0% | 7.5% |
| Trained Teachers | 15.0% | 22.5% |
| Post-Graduates | 22.5% | 25.0% |
| Graduates | 30.0% | 30.0% |

- On the basis of above Table, what is the difference between the number of unemployed men and women doctors?
 - A) 20
 - B) 30
 - C) 40
 - D) None of the above
- 2. What is the total number of unemployed Graduates?
 - A) 425
 - B) 475
 - C) 550
 - D) 600

Part D: Commerce/ Economics

- The sale of goods Act came into force from
 - A) July 1, 1932
 - B) July 1, 1930
 - C) July 1, 1935
 - D) July 1, 1940

- The value of the variable which occurs most frequently in a distribution is called
 - A) Mode
 - B) Mean
 - C) Median
 - D) All of these
- The arithmetic mean of a series is the figure obtained by dividing the sum of values all items by
 - A) 2 C) 5
- B) 3
-) 5 D) Their Number
- 4. Which of the following is Business Averages?
 - A) Moving average
 - B) Progressive average
 - C) Composite Average
 - D) All of these

Sample Questions for M.Com. (Honours)

- 1. Which of the following presents key aspects of the process of accounting in the correct chronological order?
 - Communicating, recording and identifying
 - Recording, identifying and B) communicating
 - C) Recording, totaling and identifying
 - D) Identifying, recording and communicating

Which of the following is not a function of

- controller?
 - A) Financial reporting
 - B) Managerial reporting
 - Money management C)
 - D) Cost management

Ending finished goods inventory is:

- Beginning finished goods inventory + cost of goods completed - cost of goods sold
 - Cost of goods completed cost of B) goods sold
 - Beginning finished goods inventory + cost of goods completed
 - Beginning finished goods inventory cost of goods completed + cost of goods sold

Which of the following is also known as an 4. inventoriable cost?

- Period cost A)
- B) Fixed cost
- Product cost C)
- D) Conversion cost

A cost management tool that brings in its focus the activities performed to produce a product is called

- A) target costing
- B) life cycle costing
- C) ABC
- D) benchmarking

The first Factories Act was enacted in

1881 A)

6.

- B) 1895
- C) 1897
- D) 1885

If the date of incorporation of a company is

- 7. 1/01/2005, the first AGM must be held before
 - A) 30/06/2006
 - B) 31/03/2006
 - C) 31/12/2005
 - D) 31/03/2005

The 'right to information' under the RTI Act,

- 8. 2005 includes the right to
 - A) Inspect works, documents, records
 - B) Take notes, extracts or certified copies of documents or records
 - Obtain information in form of printouts, diskettes, floppies, tapes video cassettes or in any other electronic mode or through printouts
 - D) All of the above

Long term capital asset is an asset (other than

financial securities) which is held by the assessee for more than

- 12. When an oligopolist individually chooses its level of production to maximize its profits, it charges a price that is
 - more than the price charges by either monopoly or a competitive market
 - B) less than the price charges by either monopoly or a competitive market
 - more than the price charges by a monopoly and less than the price charges by a competitive market
 - less than the price charges by a monopoly and more than the price charges by a competitive market
- 13. Suppose that the government increases its spending by 10 per cent and also increases taxes by 10 per cent. We would expect this policy to
 - Essentially have no effect on the level of national income
 - Have a contractionary effect on national income
 - Decrease the marginal propensity to save out of each extra pound of income
 - Have an expansionary effect on national income.
- 14. The Government of India has decided to cover all districts of the country in National Rural Employment Guarantee Programme (NREGP)
 - up to January 1, 2008
 - B) up to March 31, 2008
 - with effect from April 1, 2008
 - D) with effect from April 1, 2009
- 15. Reserve Bank of India calculates four components of money supply, M1, M2, M3, M4. Which one of the following statement is not correct?
 - M1 = currency with public + demand deposits with banks
 - M2 = M1 + post office savings deposit
 - M3 = M1 + M2
 - D) M4 = M3 + total post office deposits
- 16. What is meant by the term functional management?
 - A system of business organization that is based on an individual having a wide range of skills needed to administer a business
 - A type of management that is based more on personality
 - A system that groups together various jobs and is organized by departments, sections, or functions
 - A system that supports a flat form of command chain
- 17. Maslow, in his triangle of human needs, showed that
 - Having challenging new tasks is a A) basic human need
 - Money always motivates workers
 - Safety and security is a low order human need

- A) 36 months
- B) 12 months
- C) 24 months
- D) 30 months

The definition of 'Goods' under the Central

- 10. Sales Tax Act, 1956 does not include
 - A) Newspapers
 - B) Standing corps
 - C) Computer software
 - D) Animals

A rational person does not act unless

- 11. A) the action is ethical
 - B) the action produces marginal costs that exceed marginal benefits
 - C) the action produces marginal benefits that exceed marginal costs
 - D) the action makes money for the person

- Workers will not give of their best unless they have good social events provided by the firm
- The purpose of the Malcolm Baldrige National Quality Award is to
 - A) Stimulate efforts to improve quality
 - B) Recognize quality achievements of companies
 - Publicize successful quality programs
 - D) All of the above
- The process of collecting information about the external marketing environment is
 - A) Environmental management
 - B) Environmental scanning
 - C) Marketing management
 - D) Marketing scanning
- 20. The correct components of the 7-S framework are
 - A) Share values, synergy, systems, strategy, style, staff and structure
 - B) Standards, strategy, style, staff skills, systems and security
 - C) Structure, strategy, shared values, style, staff, skills and systems
 - Strategy, synergy, shared value, standardization, skills staff and structure

Sample Questions for M.Com (Business Innovations)

Q 10)

- Q1) India first took part in the Olympic games in the Year
- A) 1920
- B) 1928
- C) 1972
- D) 1974
- Q2) Where is the headquarters of the Oil and Natural Gas Corporation
- A) Mumbai
- B) Dehradun
- C) Vadodara
- D) Digboi
- Q3) The working languages of the UNESCO is/ are
- A) English only
- B) French only
- C) English and French
- D) English, French and Russian
- Q4) After textiles, India's second important industry is:
- A) Sugar
- B) Jute
- C) Cement
- D) Iron and Steel
- Q5) Vedanta group has been denied permission to start its activities in Niyamgiri Hills of Orissa. What activity was it pursuing?
- A) Steel Production
- B) Bauxite mining
- C) Gas exploration
- D) Timber cutting

- Q7. 48:122::168:? -
 - A) 292
 - B) 290
 - C) 225
 - D) 215
- Q8) AKU:?::CMW:DNX
 - A) BGL
 - B) BLQ
 - C) BGQ
 - D) BLV
- Q9) Flow: River::Stagnant: ?
 - A. Pool
 - B. Rain
 - C. Stream
 - D. Canal
 - A rectangular floor is fully covered with square tiles of identical size. The tiles on the edges are white and tiles in the interior are red. The number of white tiles is the same as the number of red tiles. A possible value of the number of tiles along the edge of the floor is
 - A. 10
 - B. 12
 - C. 14
 - D. 16

| | A) B) C) | Botany: Plants::Entomo Birds Plants Insects Snakes | ology:? – | | |
|----|---|--|------------------------|---|--------------------|
| | A) | | | A) | |
| | | Sample | Questions for M.B. | A. for Executives (MBAf | EX) |
| Сс | omponent ' | 1: General Knowled | dge | | |
| 1. | In which of A) Bile B) Liver C) Pand D) Brain | r creas | dy would you find a | cluster of cells which produ | uce insulin? |
| W | /hich area ii A) Rann B) North C) Himal D) Bay c | n East Ilayas | eding ground of the f | lamingo? | |
| 2. | Which was A) Karao B) Lahor C) Islam D) Pesha | re nabad | akistan? | | |
| 3. | A) Rome B) Ather C) Beijin | e ns | break the world reco | ord in the 400 meters even | t? |
| 4. | A) Tamil B) Oriss C) Keral | a | | | |
| | • | II: Economic and B economy is necessarily | | ent Awareness economy. | |
| ٠. | A) ContrB) PlannC) Organ | rolled ned | a | economy. | |
| 2. | A) ValueB) MissionC) Mana | the following internal face System on and objective agement structure and of the above | | trategy and other decision | s of the business? |
| 3. | Environme A) Task | ent is synonymous with | h | | |
| 4. | B) Relati C) Peopl D) Situat Which is ti A) Nation B) Nation C) Non-7 | | | | |
| 5. | In which s A) Servic B) Agricu C) Manu D) Public | ce ulture ufacturing | is growing at faster I | rate in 21 st century (after 2 | 000) |

Component III: Data Interpretation and Problem Solving

According to the survey of 2000 educated unemployed persons in which 1200 were men and 800 were women, the following data were collected.

| Qualification | Unemployed Men | Unemployed Women |
|------------------|----------------|------------------|
| Doctors | 12.5% | 15% |
| Engineers | 20.0% | 7.5% |
| Trained Teachers | 15.0% | 22.5% |
| Post-Graduates | 22.5% | 25.0% |
| Graduates | 30.0% | 30.0% |

| l r | ained Leachers | 15.0% | 22.5% |
|-----|---|---|-------------------------------------|
| Po | st-Graduates | 22.5% | 25.0% |
| Gr | aduates | 30.0% | 30.0% |
| 1. | On the basis of above Table, what doctors? A) 20 B) 30 C) 40 D) None of the above | t is the difference between the number | |
| 2. | What is the total number of unem A) 425 B) 475 C) 550 D) 600 | ployed Graduates? | |
| 3. | What is the total number of Engine A) 300 B) 350 C) 360 D) 400 | eers? | |
| 4. | In which category, unemployed meA) DoctorsB) EngineersC) Post GraduatesD) Graduates | en are more in percentage than unemp | loyed women |
| Co | emponent IV: Numerical Ability | | |
| 1. | | onstruct a bridge of 300 meters long, if | pillars are at a distance of 12 1/2 |
| 2. | If 5 x 8 = 28, 3 x 7 = 12, 8 x 6 = 35 A) 169 B) 130 C) 140 D) 144 | | |
| 3. | percentage of students who are so A) 45 B) 53 C) 60 D) 22 | | |
| 4. | children between M and R, find ou A) 24 B) 25 C) 23 D) 27 | s 8 th from the bottom and R is exactly i It the total students | n between them. If there are three |
| 5. | 3, 5, 9, 17, 13, A) 44 B) 65 C) 64 | | |

Component V: Verbal Ability and Reasoning

- 1. Disease: Health:: Freedom:?

 - A) Slavery
 B) Pleasure
 C) Plight

- D) Beauty
- 2. If you are going to west in the afternoon, the sun will be visible at your left.
 - A) Never
 - B) Always
 - C) Sometimes
 - D) Often
- 3. Fill in the blank with the most suitable alternative. He shouted _____ at the subordinate.
 - A) Loud
 - B) Loudily
 - C) Loudely
 - D) Loudingly
- 4. J, F, M, A, M, ?
 - A) M
 - B) J
 - C) D
 - D) S
- 5. In a military code CAUTION is coded as VACITNO. How will you uncode MISUNDERSTAND?
 - A) SIMUNEDSRTAND
 - B) SIMNUEDSRATDN
 - C) SMIUNDERSTAND
 - D) None of the above

Component VI: English Comprehension

The most important reason for this state of affairs, perhaps, is that India was the only country in the world to truly recognize the achievements of the Soviet-Union-rather than merely focus on the de-bilitating faults that Communism brought to its people. The people of India realized that the achievement of one hundred per cent literacy in a country much, much larger than its own and with similarly complicated ethnic and religious groupings, the rapid industrialization of a nation that was a primarily agrarian society when the Bolshevik revolution took place in 1917; the attendant revolutionary steps in science and technology, the accessibility of health care (primeval according to Western standards, perhaps, but not according to India ones) to the general population, and despite prohibition of the government of the time the vast outpourings in literature, music, art, etc., are momentous and remarkable feats in any country.

In contrast, all that the West focused on were the massive human rights violations by the Soviet State on its people, the deliberate uprooting, and mass migrations of ethnic peoples from one part of the country to another in the name of industrialization, the end of religion in short, all the tools of information were employed to condemn the ideology of Communism, so much at variance with capitalist thinking.

The difference with the Indian perception, I think here is, that while the Indians reacted as negatively to what the Soviet governments did to its people in the name of good governance (witness the imprisonment of Boris Pasternak and the formation of an intentional committee to put pressure for his release with Jawaharlal Nehru at its head), they took the pain not to condemn the people of that broad country in black and white terms; they understood that mingled in the shades of gray were grains of uniqueness. (The Russians have never failed that characteristic in themselves; they have twice experimented with completely different ideologies, Communism and Capitalism both in the space of century).

- 1. Which of the following statements according to the passage is correct?
 - (a) India took heed "On the week faults of Russian policies and system.
 - (b) India seriously commended the achievement of Russian, i.e. cent per cent literacy and rapid industrialization.
 - (c) The process of industrialization had already started when Russian revolution took place in 1917.
 - (d) The literature, art and music received a setback during the communist regime in Russia.
- 2. The West did not focus on:
 - (a) Rapid growth of nuclear weapons in Russia
 - (b) Massive human rights violation by the Soviet state on its people.
 - (c) Deliberate uprooting and mass migration of ethnic people in the name of industrialization.
 - (d) Both (b) and (c)
- 1. The Indian perception of the USSR was always
 - (a) Negative
 - (b) Neutral
 - (c) Counter reactionary
 - (d) Applauding
- 2. The passage is
 - (a) Descriptive

- (b) Paradoxical
- (c) Analytical
- (d) Thought provoking

Sample Questions for M.P. Ed.

- 1. India played hockey for the first time on Olympic Games in:
 - A) 1924, Paris (France)
 - B) 1928, Amsterdam
 - 1932, Los Angles (USA)
 - D) 1938, Berlin (Germany)
- 2. "A state of complete physical mental and social wellbeing and not merely the absence of disease or infirmity". This statement which defines health is given
 - A) UNESCO B) UNICEF
 - C) WHO
- D) Red Cross
- 3. Three of the following are alike in a certain way and so they form a group. Which is the one does not belong to the group?
 - Basketball A)
 - B) Volleyball
 - C) Hockey
 - D) Table Tennis
- The Sacrum consists of:
 - A) 3 Vertebraes
 - B) 4 Vertebraes
 - C) 5 Vertebraes
 - D) 7 Vertebraes
- 5. The chief sources of vitamin A is:
 - A) Banana
 - B) Egg
 - C) Carrot
 - D) Guava
- Sample Questions for B.P. Ed.
- 1. The 'Santosh Trophy' tournament first began in:
 - A) 1940
- B) 1941
- C) 1942 D) 1945
- 2. Who is the first teacher of a child?
 - Teacher
 - B) His Parents
 - C) His environment
 - His own conscious mind
- The first Modern Olympic games were held in the Year:
 - A) 1892
 - B) 1896
 - C) 1900
 - D)
- 1904
- Find the odd personality:
 - Baichung Bhutia
 - Kapil Dev B)
 - Pete Sampras C)
 - D) Jarnail singh
- 5. Which of the following tournaments is not a part of Grand Slam Tennis?
 - A) Australian Open
 - B) Wimbledon
 - C) U.S. Open
 - D) German Open

- 6. What is the stick used in snooker called:
 - A) A Cue
 - B) Heave
 - C) Paddle
 - D) Togo
- 7. "Shivanthi Gold Cup" is associated with the game of:
 - A) Hockey
 - B) Football
 - C) Volleyball
 - D) Badminton
- 8. What is the normal life span of RBC's?
 - A) 60 days
 - B) 90 days
 - C) 120 days
 - D) 150 days
- 9. Chronological age is calculated with the help of
 - A) Mental qualities
 - B) X-rays
 - C) Calendar Years
 - D) Organs and secretions
- YMCA College of Physical Education 10. (Madras) was established in:
 - 1956 A)
 - B) 1920
 - 1931 C)
 - 1932
 - 6. Which one of the following is different from the rest of the three?
 - Footbal
 - B) Basketball
 - Cricket C)
 - D) Tennis
 - The name of 'Tiger Woods' is associated with:
 - A) Boxing
 - B) B) Tennis
 - Football C)
 - D) Golf
- Thomas Cup' is associated with: 8.
 - A) Badminton (women)
 - B) Badminton (men)
 - Table Tennis (women) C)
 - Table Tennis (men)
 - Most import ant component of level of living is?
 - A) Health
 - B) Occupation
 - C) Education
 - Housing
 - 10. Vinay is taller than Manu, but not as tall as Yogesh, Karim is taller than Dillip but shorter than Manu, Who is the tallest among them?
 - A) Vinay

- Yogesh
- Karim C)
- D) Manu

Sample Questions for M.Sc. Biochemistry

- 1. In mammals nor-epinephrine is synthesize from:
 - Pyruvate A)
 - B) Arginine
 - C) Catechol
 - D) Tyrosine
- 2. Hyperglycemic agent secreted by the pancreas is:
 - Insulin A)
 - B) Lipase
 - C) Glucagon
 - D) **FSH**
- Feeding of raw egg may result in the deficiency of:
 - Vitamin A
 - Choline B)
 - C) **Biotin**
 - D) Riboflavin
- 4. What role RNA plays in the replication of DNA:
 - A) It acts as template
 - B) It acts as primer
 - It acts as cofactor C)
 - It is essential activator of DNA polymerase
- 5. Which of the following is not involved in antigen - antibody binding:
 - A) Hydrogen bonds
 - B) Ionic Bonds
 - Hydrophobic Interactions C)
 - D) Disulphide Bonds

- 6. The movement of ions through ion channels can be measured with the help of:
 - A) Extra cellular electrode
 - B) Intra cellular electrode
 - C) Patch clamp technique
 - D) Liposome fusion technique
- 7. The synthesis of most neuronal proteins occurs in the:
 - A) Cell body
 - B) Axon
 - C) Synapses
- D) Dendrites

Which of the following amino acid does no form peptide bond:

- A) Cysteine
- B) Proline C) Lysine
- D) Glycine

Lysozyme is an enzyme which:

- A) Hydrolyses bacterial cell wall
- B) Is made up of RNA
- C) Contains phospholipids
- 10. D) Breaks lipoproteins

Formation of uric acid from purines is catalysed by:

- A) Urease
- B) Uricase
- C) Xanthine oxidase
- D) Adenosine deaminase

Sample Questions for M.Sc. Biophysics

- 1. If A & B are vectors, then
 - Vector A and B are perpendicular to each other.
 - Vector A and B are necessarily B) parallel.
 - Vector A and B must be C) antiparallel.
 - Vector A and B may be parallel or antiparallel.
- 2. The minimum charge on a body can be:
 - one coulomb
 - B)
 - C)
 - one stat coulomb 1.6*10⁻¹⁹ coulomb 3.2 x 10⁻¹⁹ coulomb D)
- The potential due to an electric dipole varies
 - inversely as the distance A)
 - directly as the distance B)
 - inversely as the square of C) distance
- directly as the square of distance
- Which of these techniques does not give information about the dimensions of DNA molecule?
 - Viscosity measurement
 - B) light scattering
 - C) flow-birefringence
 - D) Atomic Absorption spectroscopy
- Fluorescence of a protein can be due to
 - tryptophan
 - B) tyrosine
 - C) phenylalanine
 - D) all the above
- The aromatic amino acids are important because:
 - A) they are ionized by light of wavelength 280mm.
 - they are actually imino acids that cannot rotate through the angle phi.
 - C) they give proteins their absorbance at 280 nm
 - D) they are source of disulfide bonds within the exported proteins
- 7. The Henderson-Hasselbalch equation states that:
 - $P^{k} = P^{H} + \log R$
 - $P^{H} = Pk + log R$ $P^{H} = pk log R$ B)
 - C)
 - D) $R = p^k - p^k$
- The proteins that run the fastest in SDS-PAGE are
 - A) Large
 - B) Small
 - Negatively charged C)
 - D) Positively charged
- The auditions $a \neq b \neq c$, $\alpha = \gamma = 90^{\circ} \beta \neq$ 90- describe theUnit cell
 - tetragonal
 - B) orthorhombic
 - C) monoclinic
 - trigonal D)
- The electromagnetic radiation with longest wavelength. is:
 - Visible Light
 - B) Radiowaves
 - C) Microwaves
 - D) **IR**

- 20. Mass spectrometry is an analytical technique for the identification of molecules by way of measuring their:
 - A) mass only
- B) charge
- only
- C) mass to charge ratio
- B) charge to mass ratio
- 21. Micro array analysis is used for
 - quantization of gene expression
 - B) to check the quality of gene expression
 - C) for measuring the copy number
 - to identity new genes D)
- 22. Component of atom involved in study of structure with X-ray crystallography
 - Nucleus A)
 - B) Electron
 - C) proton
 - D) Neutrons
- The radius of an atom is
 - approximately
 - 10⁻¹⁰ m 10⁻¹² m A)
 - B)
 - 10⁻¹³ m C)
 - 10⁻¹⁶ m D)
- Rays similar to x-rays but of smaller wavelength that are given off by radioactive Substances are
 - A) alpha rays
 - B) beta rays
 - C) gamma rays
 - D) cosmic rays
- 25. Antiparticle of electron is
 - A) proton
 - B) Antiproton
 - C) Positron
 - D) Neutron
 - Atomic force microscope was invented in which Year:
 - A) 1972
- B) 1986
- C) 2001
- D) 1980
- 27. Nucleic acid absorption (A₂₆₀) changes in different states. It is maximum when it is:
 - Double stranded
 - B) Single stranded
 - C) All nucleotides are separated
 - D) Fragmented
- Which out of these is not a connective tissue:
 - Cartilage A)
 - B) bone
 - C) muscle
 - blood D)
- 29 Which of these is not a characteristic of the Cardiac muscle:
 - nonstriated
 - Presence of intercalated disc B)
 - C) Involuntary
 - Presence of actin and myosin D) filaments.
- 30. Fertilization occurs in which region of female reproductive part:
 - Infundibulum A)
 - B) ampulla
 - C) Isthmus
 - D) Uterus

- 11. Of the following which has got the highest frequency?
 - ultraviolet rays
 - B) gamma rays
 - radio waves C)
 - D) infrared waves
- The value of atomic mass unit is:

 - B)
 - C)
 - 1.66 x 10⁻²⁷ Kg 1.66 x 10⁻²⁸ Kg 1.66 x 10⁻²⁹ Kg 1.66 x 10⁻²⁴ Kg
- 13. The peptide bond in protein is A) Planar, but rotates to three preferred dihedral angles
 - B)Nonpolar, but rotates to the three preferred dihedral angles
 - C)Nonpolar, and fixed in a trans conformation
 - D)Planar, and usually found in a trans conformation
- 14. The lactoferrin is produced by:
 - Spermatogonia
 - B) Reticulocytes
 - C) Amebocytes
 - D) Neutrophils
- 15. During generation of action potential, depolarization is due to
 - $k^{\scriptscriptstyle +}$ -efflux
 - Na⁺ -efflux B)
 - K⁺ -influx C)
 - Na+ -infflux D)
- 16. Which of the following wave is likely to be absent in ECG
 - Ρ A)
 - Τ B)
 - Q C)
 - D) R
- 17. Indirect immnuofluorescene involves fluorescently labeled
 - Immunoglobulin-specific antibodies
 - Antigen-specific antibodies B)
 - C) Hapten - specific antibodies
 - D) Carrier - specific antibodies
- 18. Prostaglandins are
 - C20 unsaturated fatty acids A)
 - C27 saturated alcohols B)
 - C) C20 saturated fatty acids
 - C27 unsaturated alcohols
- 19. Apart from the proton which other nuclei of the following is used for NMR. A) 13C

 - ¹²C ¹⁶O
 - C)

- 31. Brunner glands are present in:
 - A) Colon
 - jejunum B)
 - C) duodenum
 - D) ileum
- 32. A rickshaw puller remembers a large number of places and has the ability to find shortcuts and new routes between familiar places. Which region of the brain is responsible for this?
 - Pituitary
 - B) Thalamus
 - C) Hypothalamus D)
 - Hippocampus
- 33. A Ramachandran plot show:-

The angles that are allowed A) between the bonds connecting the amide nitrogen in a peptide bond

- The sterically limited rotational angles where phi and psii are allowed in the protein backbone.
- The amino acid residues that have the greatest degrees of rotational freedom
- The sterically allowed rotational angles between the side chain groups in a peptide backbone.
- The most sensitive for the lethal effects of radiation is
 - Preimplantation A)
 - B) Early organogensis
 - C) Late organogensis
 - The fetal period
- Which of the following is the primary factor regulating normal coronary blood flow
 - Aortic diastolic pressure
 - Coronary perfusion pressure
 - Systolic wall pressure
 - Myocardial oxygen consumption D)
- The term satellite DNA refers to
 - extrachromosomal DNA A) fragments that are found closed to (orbiting) the full length chromosomes Mitochondrial DNA, which is
 - circular in nature Long tandem repeats of simple
 - **DNA** sequences Mobile DNA elements such as
 - transposons and insertion sequences
- 37. The number of atoms in a crystal which surrounded a particular atom as its nearest neighbours is called
 - Charge number A)
 - B) Atomic packing factor
 - C) Coordination number
 - D) Lattice
- 38. EPR spectrum is due to
 - A) Change in mass state of an electron
 - Change in L-K transition of an electron
 - C) Change in spin state of an electron
 - Change in both L-K transition D) and mass of an electron

Sample Questions for M.Sc. Mathematics

- 1. Let G be a group of order 147. For any $a \in G$, $a \neq e$, the number of solutions of $x^2 = a$ is
- A) 49
- B) one
- C) three
- D) zero
- 2. In the ring Z[i], where Z is the ring of integers, the element 1 - i
- is both irreducible as well as prime
- B) is neither irreducible nor prime
- is irreducible but not prime
- is prime but not irreducible
- 3. The equation of the tangent to the curve f(x, y)=0 at any point (a,b) is given by
- $(x-a)\frac{\partial f}{\partial y}(a,b) + (y-b)\frac{\partial f}{\partial x}(a,b) = 0$
- $(x-a)\frac{\partial f}{\partial y}(a,b) (y-b)\frac{\partial f}{\partial x}(a,b) = 0$
- $(y-b)\frac{\partial f}{\partial y}(a,b) + (x-a)\frac{\partial f}{\partial x}(a,b) = 0$
- $(x-a)\frac{\partial f}{\partial x}(a,b) (y-b)\frac{\partial f}{\partial y}(a,b) = 0$
- 4. Two spheres

$$x^{2} + y^{2} + z^{2} + 2u_{1}x + 2v_{1}y + 2w_{1}z + d_{1} = 0$$

 $x^{2} + y^{2} + z^{2} + 2u_{1}x + 2v_{1}y + 2w_{1}z + d_{1} = 0$

cut each other orthogonally if

- $2 u_1 u_2 + 2 v_1 v_2 + 2 w_1 w_2 = d_1 + d_2$
- $u_1u_2 + v_1v_2 + w_1w_2 = 0$
- $\frac{u_1}{u_2} = \frac{v_1}{v_2} = \frac{w_1}{w_2} = \frac{d_1}{d_2}$
- (D) $2(u_1 u_2) + 2(v_1 v_2) + 2(w_1 w_2) = (d_1 d_2)$
- 5. The series $\sum \frac{1}{n(\log n)^p}$ is
- (A) convergent if p > 0
- (B) convergent if n > 1
- (C) divergent if p > 1
- (D) convergent if 0

6. The integrating factor of $\frac{\partial y}{\partial x} + 2 xy = 4 x^3$ differential

given by

- (A) e^{-y} 2
- (B) e x 2
- (C) e x D) e^{y}
- 7. If $\phi(x_1y_1z_1 = 3x^2y y^3z^2)$, then

 $\nabla \phi$ at the point (1,-2,1) is

- (A) $-12 \hat{i} 9 \hat{j} 16 \hat{k}$
- (B) $12 \hat{i} + 9 \hat{j} 16 \hat{k}$
- (C) $-12 \hat{i} + 9 \hat{j} + 16 \hat{k}$
- (D) $-12 \hat{i} + 9 \hat{j} 16 \hat{k}$
- 8. If one root of the equation $x^3 - 13 x^2 + 15 x + 189 = 0$ exceeds the other by 2, then all the
 - 7, 9 and 3
 - -7, -9 and -3
 - 7, 9 and -3
- 9. Two forces 13 kg.wt. and $3\sqrt{3}$ kg.wt. act on a particle at an angle θ and equal to a resultant force of 14 kg.wt., then the angle between the forces is
 - (A) 45⁰ (B) 30⁰

 - 60⁰ (C)
 - 90°
- Let $_{W_{\ _{1}}}$ and $_{W_{\ _{2}}}$ be subspaces of dimensions 5 and 4 respectively of a vector space V of dimension 6.

Then dim $(W_1 \cap W_2)$

- Zero (A)
- (B) one
- (C) at most two
- at least three (D)

Sample Questions for M.Sc. 2-Year Course (Bioinformatics/ System Biology and Bioinformatics)

- Which are the repositories for raw sequence data
 - A) Gen Bank
 - B) EMBL
 - C) DDBJ
 - D) GGPP
- Which of the following annotation is not provided by SWISS-PROT
 - A) Protein function
 - B) Domain structure
 - C) Post translation modification
 - D) Crystal formations
- 3. Which is the most important computer language used in Bioinformatics
 - A) Pascal
 - B) Perl
 - C) Java
 - D) C++
- Which type of analysis cannot be performed on *raw DNA sequence* using Bioinformatics tools
 - A) Identifying coding regions
 - B) Identification of introns and exons
 - C) Gene product prediction
 - D) Identifying cis and trans regions
- 5. OMIM is engaged in study of
 - A) Human molecular Biology
 - B) Plant molecular biology
 - C) Bacterial molecular biology
 - D) Yeast Molecular biology

- 6. Which of the following sequence is correct:
 - A) DNA, RNA, Protein
 - B) DNA, Protein, RNA
 - C) RNA, DNA, Protein
 - D) Protein, DNA, RNA
- Which is not the method of protein/DNA sequence alignment
 - A) Matrix
 - B) Brute force
 - C) Dynamic programming
 - D) Heuristic methods
- 8. The method not used in NSA programming is
 - A) Sum of pairs methods
 - B) Spare alignment
 - C) Two step method
 - D) Fitch/Margoliosh method
- Distance matrix method are used for
 - A) Carbohydrate structure prediction
 - B) Proteins structure prediction
 - C) Phylogenetic analysis
 - D) Primer design
- 10. FÁSTA-BLAST, WU-BLAST are programmes used for determining
 - A) Sequence similarity of Protein only
 - B) Sequence similarity of DNA only
 - C) Sequence similarity of Carbohydrate only
 - D) Sequence similarity of Protein and DNA

Sample Questions for M.Sc. 2-Year Course for M.Sc. (Environment)

- A thin copper wire of length one metre increases in length by 4% when heated by 10°C. What will be the per cent increase in area when a square copper sheet of side one metre is heated by 10°C?
 - A) 4%
 - B) 8%
 - C) 16%
 - D) 24%
- 2. If the unit of length and force are increased by 4 times, the unit of energy gets increased by how many times?
 - A) 4 times
 - B) 8 times
 - C) 16 times
 - D) does not change
- 3. The scientific principle involved in radio and television is:
 - A) Superconductivity
 - B) Semiconductiography
 - C) Propagation of e.m. waves
 - D) Electromagnetic induction
- A passenger in a moving train tosses a coin.
 If it falls behind him, the train must be moving with
 - A) An acceleration
 - B) A deceleration
 - C) Uniform speed
 - D) It can never happen

- 10. Which of the following is a deadly nerve gas developed during the second world war?
 - A) Nitric oxide
 - B) Phosgene
 - C) Sarine
 - D) Dioxin
- 11. The natural rubber obtained from trees is made of:
 - A) Isoprene units
 - B) Vinyl chloride
 - C) Acetylene
 - D) Neoprene
- 12. Which of the following is differentially permeable?
 - A) Cell wall
 - B) Tonoplast
 - C) Nuclear membrane
 - D) Cytoplasm
- 13. Which of the following prevents leaf shedding in plant?
 - A) Auxins
 - B) Gibberellins
 - C) Cytokinins
 - D) Abscisic acid
- 14. Sugar in chloroplast is synthesized in:
 - A) Quantasomes
 - B) Stroma
 - C) Thylakoids
 - D) Matrix

- 5. Zero error of an instrument introduces:
 - A) Systematic error
 - B) Random error
 - C) Per cent error
 - D) Means no error
- 6. The Science of surveying and mapping the earth's surface is known as:
 - A) Cartography
 - B) Geodesy
 - C) Topography
 - D) Scienodsy
- 7. The gravitational force with which a body is attracted towards the earth is
 - A) Maximum at the equator and minimum at the poles
 - B) Minimum at the equator and maximum at the poles
 - C) The same at the equator and the poles
 - D) Depends on the altitude at the given point
- 8. Which of the following is used as an antiseptic?
 - A) lodine
 - B) Bromine
 - C) Chlorine
 - D) Fluorine
- Washing soaps produces a scum with hard water and not much of foam, because the hard water contains:
 - A) Many suspended particles
 - B) Many dissolved inorganic salts
 - C) Chalk and sulphur
 - D) Dissolved organic matter

- 15. The structure of protoplasm is:
 - A) Granular
 - B) Fibrillar
 - C) Reticular
 - D) Colloidal Matrix
- 16. Which of the following could be 'cancer' of the lymph nodes and spleen?
 - A) Carcinoma
 - B) Sarcoma
 - C) Leukemia
 - D) Lymphoma
- The major component of Bacterial cell wall is
 - A) Xylan
 - B) Chitin
 - C) Peptidoglycan
 - D) Cellulose
- 18. How many bones does the Cranium of man have?
 - A) 8

C)

- B) 12
- 16
- D) 20
- 19. When is the world Population day celebrated?
 - A) August 3
 - B) April 16
 - C) October 18
 - D) July 11
- 20. In a Nuclear Reactor the heavy water is used to:
 - A) cool the neutrons
 - B) slow down the neutrons
 - C) absorb the neutrons
 - D) control the number of neutrons

Sample Questions for M.Sc. 2-Year Course (Human Genomics)

- Which one of the following is an essential component of DNA?
 - A) Protein
 - B) Carbohydrate
 - C) Lipids
 - D) Vitamins
- Three types of RNA involved in comprising the structural and functional core for protein synthesis, serving as a template for translation, and transporting amino acid, respectively, are:
 - A) mRNA, tRNA, rRNA
 - B) rRNA, tRNA, mRNA
 - C) tRNA, mRNA, rRNA
 - D) rRNA, mRNA, tRNA
- A synthetic mRNA of repeating sequence 5'-CACACACACACACACAC... is used for a cell-free protein synthesizing system like the one used by Nuremberg. If we assume that protein synthesis can begin without the need for an initiator codon, what product or products would you expect to occur after protein synthesis.
 - One protein consisting of a single amino acid
 - B) Three proteins, each consisting of a different, single amino acid
 - C) One protein, with an alternating sequence of two different amino acids
 - Two proteins, each with an alternating sequence of two different amino acids.

- 5. Signaling between cells usually results in the activation of protein
 - A) lipase
 - B) kinases
 - C) proteases
 - D) nuclease
- 6. Highly repetitive DNA has
 - A) a very short repeating sequence and no coding function
 - a moderate repeating sequence and a coding for house keeping gene
 - a simple repeat sequence and no coding function
 - D) None of the above
- From which grandparent or grandparents did you inherit your mitochondria? Is it your:
 - A) mother's parents
 - B) paternal grandfather
 - C) grand mothers
 - D) maternal grandmother
- What are the possible blood types of the offspring of a cross between individuals that are type AB and type O? (Hint: blood type O is recessive)
 - A) <u>AB or O</u>
 - \overrightarrow{A} , \overrightarrow{B} , or \overrightarrow{O}
 - C) <u>A or B</u>
 - D) A, B, AB, or O

- 4. A replicon is:
 - an enzyme complex that replicates
 DNA
 - B) the amount of time required to duplicate a genome
 - C) larger in complex eukaryotes and smaller in bacteria
 - the DNA sequences that specify and are replicated by a single replication initiation event
- 9. A woman with an X-linked dominant disorder mates with a phenotypically normal male. On average, what proportion of this couple's daughters will be affected with the disorder?
 - A) 0.5
 - B) 1.0
 - C) 0.75
 - D) 0.25
- A messenger acid is 336 nucleotides long, including the initiator and termination codons. The number of amino acids in the protein translated from this mRNA is:
 - A) 999
 - B) 630
 - C) 330
 - D) 111

Sample Questions for M.Sc. 2-Year Course (Instrumentation)

- 1. Power amplifiers handle signals compare to voltage amplifiers
- a) Small
- b) Very small
- c) Large
- d) No Signal
- 2. Zener diodes are also known as
- a) Voltage regulators
- b) Forward bias diode
- c) Breakdown diode
- d) Power Amplifier
- 3. When is the bridge circuit balanced?
- a) When voltage is applied
- b) When current flows through the opposite ends of the bridge circuit
- c) When no current flows through the galvanometer
- d) When impedance is minimum

- 4. What do we call the temperature and pressure at which solid, liquid, and
- vapor phases of a particular substance coexist in equilibrium?
- [A] Equilibrium point
- [B] Triple point
- [C] Normal point
- [D] Break Point
- 5. What is rectifier used for?
- [A] for converting alternating current into direct current
- [B] for converting direct current into alternating current
- [C] for increasing the power of signal
- [D] for decreasing the voltage
- 6 .Which of the following polymer is obtained by the condensation reaction

between ethylene glycol and terephthalic acid?

- [A] Terelene
- [B] PMMC
- [C] PVC
- [D] PVA

Sample Questions for M.Sc. 2-Year Course in Nuclear Medicine

- We can't produce colors with white light through:
 - A) Interference
 - B) Polarization
 - C) Diffraction
 - D) Dispersion
- Methods of Fourier Transformation are applied in
 - A) Nuclear Magnetic Resonance
 - B) X-ray crystallography
 - C) Medical Imaging
 - D) All of the above
- 3. Which one of the following is correctly

- 6. Macrophage like cells in the connective tissue are
 - A) Osteoclasts
 - B) Mesanglial cells
 - C) Histiocytes
 - D) Microglial cells
- Zinc finger proteins and helix-turn-helix proteins are:
 - A) Types of DNA-binding proteins
 - B) Involved in the control of translation
 - C) Components of ribosomes
 - Part of the hemoglobin in blood cells

matched?

- A) Chloroplast storage of enzymes
- B) Lysosome powerhouse of cell
- C) Nucleolus stie of ribosomal synthesis
- D) Glyoxysome structural support of cell
- 4. Which amino acid can stabilize protein structure by forming covalent cross links between polypeptide chins?
 - A) Ser
 - B) Gly
 - C) Glu
- D) Cys
- 5. In CT imaging the phenomenon used is
 - A) Radiation absorption
 - B) Radiation damage
 - C) Free radical formation
 - D) Radiation fluorescence

- 8. Transcription of DNA into mRNA is catalyzed by
 - A) DNA polymerase
 - B) RNA synthetase
 - C) RNA polymerase
 - D) Rnase
- Which nitrogenous bases is NOT found in DNA?
 - A) Thymine
 - B) Uracil
 - C) Adenine
 - D) gunanine
- 10. How would the complementary strand of DNA appear if the original strand of DNA contained the bases T-A-G-C in the order?
 - A) U-A-C-G
 - B) G-C-A-T
 - C) T-A-C-G
 - D) A-T-C-G

Sample Questions for M.Sc. 2-Year Course in Forensic Science & Criminology

Section A: General Science (Compulsory)

- 1. Which acid is produced when milk gets sour?
- A) Tartaric Acid
- B) Butyric Acid
- C) Lactic Acid
- D) Acetic Acid
- 2. The bond which is present between water molecules is:
- A) Electrovalent bond
- B) Covalent bond
- C) Hydrogen bond
- D) Vander Waalls bond
- 3. The number of Chromosomes pairs in Human body are :
- A) 23
- B) 42
- C) 46
- D) None of above
- 4) The mass of the body at the centre of earth is
- A) Less than at the surface
- B) Remains constant
- C) More than the surface
- D) Zero

Forensic Science

- 1. Who suggested the practical method of finger-printing and their classification
- A) Francis Galton
- B) Henry Faulds
- C) Albert Osborn
- D) Calvin Goddard
- 2. Study of the motion of a projectile from the muzzle of the weapon to the target is
- A) External Ballistics
- B) Terminal Ballistics
- C) Internal Ballistics
- D) None of the above

Section B: Any two of the four subsections

Biology

- The most abundant protein on earth is
 - A) Keratin
 - B) Rubisco
 - C) RuBP
 - D) Fibrinogen
- Type of mimicry in which both the minic and model are harmful (unpalatable) to the predator

Batesian mimicry

Mullerian mimicry

Warning mimicry

Concealing mimicry

Chemistry

The correct decreasing order of the boiling points is

- A) NH₃>H₂O> HF
- B) H₂O> HF>NH₃
- \dot{C}) NH₃> HF > H₂O
- D) HF>H₂O>NH₃
- 2. The element that shows both +3 and
- +4 oxidation is
- A) Cerium
- B) Promethium
- C) Gadolinium
- D) Holmium

Physics

- 1. Where can Maxwell's equation be derived
- A) Gauss's las
- B) Gauss's magnetic law
- C) Faraday law
- D) All the above
- 2. A particle executive a vibratory motion passing through mean point has
- A) Maximum potential energy and minimum kinetic energy
- B) Maximum kinetic energy and minimum potential energy
- C) Kinetic energy and potential energy

Sample Questions for M.Sc. Statistics

- $\lim_{x\to 0} \frac{\sin(\pi\cos^2x)}{x^2}$ is

 - (b) 1
 - (c) $-\pi$
 - (d) $\pi/2$
- For $x \in \mathcal{R}$, $\lim_{\mathbf{x} \to \infty} \left(\frac{\mathbf{x} \mathbf{3}}{\mathbf{x} + \mathbf{2}}\right)^{\mathbf{x}}$ is (a) e^{-1} 2.

 - (b) e
 - (c) e^{-5}
 - (d) e^{5}
- The value of $\int_{-1}^{2} |[x] \{x\}| dx$, where 3. [x] is the greatest integer less then or equal to x and $\{x\}$ is the fractional part of x is
 - (a) 7/2
 - (b) 5/2
 - (c) 1/2
- The value of $\int_{1/3}^{3} \frac{1}{x} Sin\left(\frac{1}{x} x\right) dx$ is 4.
- The number of accidents per week in a 5. small city has a Poisson distribution with mean equal to 3. The probability of exactly 2 accidents in 2 weeks is (a) $2e^{-3}$ (b) $9e^{-3}$ (c) $18e^{-6}$ (d) $18e^{-3}$
- The Quadratic form $Q(x, y, z) = x^2 +$ 6. $3y^2 + 2z^2$ is
 - (a) Positive definite (b) Positive semidefinite (c) Negative definite (d) Indefinite
- 7. The function

$$f(x) = \begin{bmatrix} \frac{\sin x}{x} & for x \neq 0\\ 1 & for x = 0 \end{bmatrix}$$

- (a) continuous at x = 0
- (b) not continuous at x = 0
- (c) not differentiable at x = 0
- (d) nowhere differentiable at x = 0

- 8. Let A be a n x n real matrix. Then, which of the following statements is true?
- (a) If the eigenvalues of A are $\lambda_1,\,\ldots\,,\,\lambda_n,$ then A is similar to a diagonal matrix with

 $\lambda_1,\,\ldots\,,\!\lambda_n$ along the diagonal.

- (b) If rank (A) = r, then A has 'r' non-zero eigenvalues.
- (c) If $A^k = 0$ for some k > 0, then trace(A) = 0.
- (d) If A has a repeated eigenvalue, then A is not diagonalizable.
- The system of equations 4x + 6y = 5, 8x +12y = 10 has:
- (a) A unique solution
- (b) No solution
- (c) Infinitely many solutions
- (d) None of the above
- If two matrices A and B have the same size and the same rank, then
- (a) they have determinant 0
- (b) they are equivalent
- (c) A and B have common elements.
- (d) A and B have at least two elements common
- The system AX = O in 'n' unknowns has only trivial solution if:
- (a) $\rho(A) > n$
- (b) $\rho(A) < n$
- (c) $\rho(A)=n$
- (d) ρ(A)≥n
- Let F and G be two events in the sample space S such that P(FUG) = .8,

p and P(G) = .3. The value of p for which F and G are independent is:

- A. .5
- B. .6 C. 2/3
- 1/5
- 13. The particular integral of $(D^2 + D)y = x^2 + 2x$

A. 4x+c B. $x^3 + 2x^2 + 4x$ C. $x^3/3 + 2x^2 + 4x$

The value of $\int_C \frac{Z-3}{Z^2+2Z+5} dz$, where C: |Z+1-i|=

A. 0 B (i-2) C. π ((i-2) D. π/2

- 15. The residue of $f(Z) = \frac{Z^2}{(Z-1)^2(Z+2)}$ at pole 1 is : A. 1/3 B. 5/9 D. 0
- 16. The complete solution of (x+1) dy/dx -y = $e^{3x}(1+x^2)$ is :

A. -1/(x+1) B. 1/(x+1) C. $(e^{3x}/3 + c)(1+x)$ D. $(e^{3x}/3 + c)$

17. The solution of $p = \sin(y-px)$, where p =20. A person selects two items randomly, one by one without replacement, dy/dx, is from A. $px + sin^{-1}p$ B. $cx + sin^{-1}c$ containing 4 defective and 6 non-defective items. C. cx probability that second drawn item will be D. sin⁻¹c defective given that first was non defective 18. The value of k for which the area under the is: curve f(x) = k(y+1), 2 < y < 4and zero A. 4/15 B. 6/25 4/9 D. 4/10 otherwise, will be one is: C. A. 1/8 B. 8 C. 1 D. 3/4 21. Random variable X follows Poisson distribution such that 3 P[X = 1] = 2 p[X = 2]. The 19. The value of $\int_0^\infty xe^{-x/2}dx$ is: mean of X is: 2 B. 1 A. 2 C. 3/2 D. D ½ B. 3 1

Sample Questions for M.Sc. Geology

Sample Questions for M.Sc. (Stem Cell & Tissue Engineering)

- 1.A Sandstonde containing of at least 25% Feldspar is:
 - A) Orthoguarzite
 - B) Arkose
 - C) Graywacke
 - Sublithic Wacke
- 2. An intergrowth texture in which plagioclase contains inclusion of potash feldspar is known as:
 - Perthite A)
 - Antiperthite B)
 - Graphic C)
 - D) Seriate
- 3. Which of the following rock is not of metamorphic origin:
 - Slate
 - B) Phyllite
 - C) Schist

- 4. Mica Plate gives the retardation of:
 - A) 1 Lameda
 - B) ½ Lameda
 - 1/4 Lameda
 - D) Variable retardation
- 5. Which of the following mineral is Aluminosilicate:
 - A) Quartz
 - B) Garnet
 - **Biotite**
 - Sillimanite, Robins, Crows
- Shale
- 1. Cholera spreads due to
 - A. Air pollution
 - B. Line sources
 - C. Humid weather
 - D. Water pollution
- Type of immunoglobulin present in tears is 2.
 - A. IgA
 - B. IgG
 - C. IgD
 - D. IgE
- 3. Cofactor is generally
 - A. protein
 - B. vitamin
 - C. sugar
 - D. lipid
- 4. The enzyme which joins two DNA molecules is called
 - A. DNA Ligase
 - B. DNA polymerase
 - C. protease
 - D. kinase
- 5. Ribosomes are attached to Endoplasmic Reticulum (ER). This ER is called
 - A. Rough ÈR
 - B. smooth ER

- C. ribozyme
- D. ribonuclease
- 6. The lysosomes are organelle of the cell. They

- A. contain hydrolytic enzymes
- B. are called power house of the cell
 - C. contain DNA
 - D. contain RNA
- 7. Fluid-mosaic hypothesis was proposed by
 - Danielli Robertson
 - Singer and Nicolson B.
 - Davson
 - Robertson
- 8. Which of the following is a sugar molecule?
 - A. Glucose
 - B. Glycine
 - C. palmitic acid
 - D. adenine
- 9. Leaf pigments are separated from a mixture by
 - A. Spectrophotometry
 - Chromatography
 - Autoradiography C. SDS-PAGE
- 10. The cause of diabetes is

- A. Insulin deficiency
- Glucose deficiency
- C. Presence of glucose in urine
- D. Bacterial infection
- 11. Kidney plays an important role in the

following process

- A. secretion of pepsin
- B. excretion
- C. contraction

D. respiration

12. The chromosomes are aligned at the equatorial plate of the cell during which stage of mitosis?

- A. prophase
- B. metaphase
- C. anaphase
- D. telophase

Sample Question Paper for M.Sc. (2 Year Course) Microbial Biotechnology

- 1. Which one of the following processes refers to removal of only pathogenic organisms from an animate surface?
 - A. Disinfection
 - B. Antisepsis
 - C. Tyndallization
 - D. Inspissation
- 2. Under conditions of antigen excess, the complexes between IgA and a tetravalent antigen will have the composition
 - A. Ag2Ab1
 - B. Ag4Ab1
 - C. Ag4Ab3
 - D. Ag2Ab7
- 3. Ebola is a
 - A. Haemorrhagic fever of humans and other primates caused by ebolaviruses
 - Prion disease of primates and humans
 - C. Equine bolus Aswan syndrome caused by unknown aetiological agent
 - D. Bacterial febrile illness that leads to sudden death
- 4. Which of the following chromatography techniques can be used to separate a protein that binds strongly to its substrate incorporated onto a column?
 - A. Size-exclusion chromatography
 - B. Ion exchange chromatography
 - C. Affinity chromatography
 - D. Partition chromatography
- 5. The N₂ fixation reaction catalysed by the enzyme nitrogenase is a high energy demanding reaction that requires approximately
 - A. 12 ATP
 - B. 25 ATP
 - C. 18 ATP
 - D. 7 ATP
- 6. In light microscopy, if the wavelength of the light illuminating a sample is increased the resolving limit and the resolving power of the microscope will _____and respectively.

 - A. Increase; IncreaseB. Increase; Decrease
 - Decrease; Increase C.
 - D. Decrease; Decrease
- 7. The affinity of an enzyme for its substrate, when the enzyme has a K_m of 0.50mM will bethan the affinity of an enzyme for its substrate when the enzyme has a K_m of 0.05mM.
 - A. Half
 - B. Greater
 - C. Lesser
 - D. Equal
- 8. For recovering citric acid from culture medium after the fermentation, Ca(OH)₂ is added to the slurry to
 - A. Precipitate calcium carbonate
 - B. Precipitate calcium sulphate
 - C. Precipitate calcium phosphate
 - D. Precipitate calcium citrate
- 9. Chronic granulomatous disease arises due to defects in the
 - A. Monocytes and neutrophils
 - B. T cellsC. B cells

 - D. RBCs
- 10. Cathepsin G is a marker for
 - A. Mitochondria

Sample Questions for M.Sc. Biotechnology

- B. Chloroplast
- LykoCorrect sequence of stages in cell cycle is
- D. GoAlgi boldlesS, G2, M
 - S, G2, M, G1 B)
 - G1, G2, M, S C)
 - G1, G2, S, M D)
 - 2. Which of the following does not contain both DNA and RNA?
 - A) Yeast
 - B) Bacteria
 - C) Mycoplasma
 - D) Virus
 - 3. Which of the following is not an antibacterial antibiotic
 - Tetracyclin
 - B) Ampicillin
 - C) Nystatin
 - D) Nalidixic acid
 - 2. The development of egg without fertilization is called
 - A) Blastgenesis
 - B) Parthenogenesis
 - Cogenesis C)
 - D) Gametogenesis
 - E)
 - 3. TATA box and Pribnow box are components of
 - A) Operators
 - B) Promoters
 - Enhancers C)
 - Activators D)
 - 4. Peptide chain elongation involves all the following except
 - peptidyl transferas
 - **GTP** B)
 - Tu, Ts and G factors C)
 - D) Formyl tRNA

- 7. The smallest unit of DNA capable of coding for the synthesis of a polypeptide is the
 - A) Operon
 - B) cistron
 - C) promoter
 - D) replicon
 - 8. Exonuclease is an enzyme, which cleaves DNA from
 - 3' end
 - 5' end B)
 - C) both 3' and 5' end
 - internal bonds in DNA
 - 9. Which of the following is not part of the lac operon of E. coli?
 - A) genes for inducible enzymes of lactose metabolism
 - B) genes for the repressor, a regulatory protein
 - C) gene for RNA polymerase
 - D) a promoter, the RNA polymerase binding site
- 10. Which of the following primers would allow copying of the singlestranded DNA sequence 5' ATGCCTAGGTC?
 - A) 5' ATGCC, B) 5' TACGG

 - C) 5' CTGGA
 - D) 5' GACCT

Sample Questions for M.Sc. Botany

- 1. In C₄ plants the first CO₂ acceptor is:
 - A) Ribulose 1,5-bisphosphate
 - B) Phosphenol pyruvate
 - C) Pyruvate
 - D) Ribulose-5-phosphate
- 2. In majority of angiosperms, the female gametophyte at the time of fertilization is:
 - A) 8-celled
 - B) 7-celled
 - C) 6-celled
 - D) 4-celled
- Agar-agar is extracted from which of the following genera
 - A) Gracilaria
 - B) Dictyota
 - C) Ectocarpus
 - D) Laminaria
- 4. Black rust of wheat is caused by :
 - A) Ustilago tritici
 - B) Puccinia graminis tritici
 - C) Protomyces macrosporus
 - D) Albugo candida
- 5. Oomycota is a phylum in kingdom:
 - A) Fungi
 - B) Chromista
 - C) Protozoa
 - D) Mycota
- 6. Cystidium is a
 - A) Sterile element occurring in the hymenium of certain Basidiomycetes
 - B) Reproductive organ of a green alga
 - C) Fertile part of lichen thallus
 - D) Asexual spore

- 7. Most bryophytes are autotrophic but a few are more or less saprophytic. Which of the following is totally devoid of chlorophyll and depends upon a mycorrhizal association for its growth and development?
 - A) Cyptothallus mirabilis
 - B) Funaria hygromitrica
 - C) Concephalum conium
 - D) Pellia epiphylla
 - Somaclonal variations are:
 - Variations produced during tissue culture
 - B) Variations produced during sexual reproduction
 - C) Variations caused by mutagenic chemicals
 - D) Variations caused by Gamma rays
- 9. Trisomic condition is expressed as
 - A) 2n-1
 - B) 2n-2
 - C) 2n+1
 - D) 2n+2
- 10. The functional unit in ecology is the:
 - A) Organism
 - B) Biosphere
 - C) Ecosystem
 - D) Population

Sample Questions for M.Sc. Chemistry

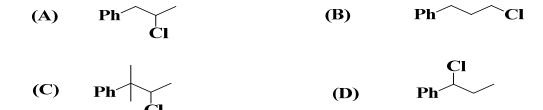
- 1.Phenolic esters on heating with AICI₃ gives o- and p- acyl phenol. This is termed as:
- (A) Favorski rearrangement
- (B) Beckmann rearrangement
- (C) Fries rearrangement
- (D) Wolff rearrangement
- 2. Product of the rapid photochemical reaction of following aromatic compound is:

$$(A) \qquad \begin{array}{c} hv \\ Ph \end{array}$$

$$(B) \qquad \begin{array}{c} OH \\ OPh \end{array}$$

$$(C) \qquad (D) \qquad OPh \end{array}$$

- 3. With the molecular formula C₉H₁₁Cl assign the plausible structure to the compound from the following sets of NMR data:
- (i) Quintet (δ 2.15) 2H
- (ii) Triplet (δ 2.75) 2H
- (iii) Triplet (δ 3.38) 2H
- (iv) Singlet (δ 7.22)5H



4.Ozonolysis of butan-1-ene followed by reduction with Zn / CH₃COOHgives:

- (A) Acetaldehyde and formaldehyde B) Acetaldehyde and acetone
- (C) Acetone and formaldehyde (D) Propionaldehyde and formaldehyde
- 5. The equilibrium constant of a reaction doubles on raising the temperature from 25 °C to 35 °C. Calculate ΔH° for the reaction(in KJ mol⁻¹):
 - (A) 52.89 (B) 0 (C) 60.5 (D) 46.3
- 6. No. of vibrational degree of freedom in benzene:
 - (A) 6 (B) 2
 - (C) 31 (D) None of the above
- 7. What is the constant volume heat capacity of an ideal monoatomic gas (in unit J K⁻¹ mol⁻¹)?
 - (A) 12.47 (B) 6.1
 - (C) 0 (D) Infinite
- 8. Average kinetic energy of the gas molecules at temperature, T is:
 - (A) 2/3 RT (B) $2/3 \text{ N}_{\circ} kT$
 - (C) $3/2 \text{ N}_{\circ}\text{RT}$ (D) $3/2 \text{ N}_{\circ}\text{kT}$
- 9. (C₂H₅)₂Zn on reaction with acetyl chloride gives:
 - (A) Butane (B) Butanoic acid (C) Butanone (D) Butene
- 10. Which of the following combination of orbitals is not permissible?
- (A) n = 3, l = 2, m = 0, s = -1/2 (B) n = 5, l = 0, m = 0, s = 1/2
- (C) n = 2, l = 1, m = 0, s = 1/2 (D) n = 4, l = 3, m = -3, s = 0
- 11. Calculate the effective nuclear charge at the outer boundary of copper atom:
- (A) 3.85 (C) 1.3 (B) 4.35 (D) 13.05
- 12. Which of the following has highest ionic mobility in aqueous solution?
- (A) Li⁺ B) Na
- (C) K^+ (D) Cs^+

Sample Questions for M.Sc. Physics/ Physics (Specialisation in Electronics)/ M.Sc. (2 Year course) Medical Physics

- Two electrons move in opposite directions at 0.70 c as measured in the laboratory. The speed of one electron as measured from the other is:-
 - A) 0.35c
 - B) 0.70c
 - C) 0.94c
 - D) 1.00 c
- 2. Which one of the following transformations is second order phase transition?
 - A) Ferromagnetic state to the paramagnetic state
 - B) Melting of ice
 - C) Evaporation of materials
 - D) Solidification of materials.

- When the gate voltage becomes more negative in n-channel JFET, the channel between depletion layers:
 - A) Shrinks
 - B) Expands
 - C) Conducts
 - D) Stops conducting
- 7. Space quantization means that:
 - A) Space is quantized
 - B) L and U are in the same direction.
 - C) L₂can have discrete values.
 - D) An electron has magnetic dipole moment.

- 3 For which one of the following signal we require an amplifier with minimum bandwidth:
 - A) Sine wave
 - B) Square wave
 - C) Triangular wave
 - D) Saw tooth wave
- Two of maxwell's equations contain an integral over a closed surface. For them the infinitesimal vector area dA is always:
 - A) Tangent to the surface
 - B) Tangent to the field line
 - C) Perpendicular to the surface and pointing inward.
 - D) Perpendicular to the surface and pointing outward.
- 5. For the domestic ac supply of 220V, the breakdown voltage of a diode should be:
 - A) 130V
 - B) 163V
 - C) 220V
 - D) 330V

- 8. The electron density of states for a metal depends primarily on:
 - A) The temperature
 - B) The energy associated with the state
 - C) The size of the sample.
 - D) The mass of the sample.
- 9. Some alpha emitters have longer halflives than others because:
 - A) Their alpha particles have greater mass.
 - B) Their alpha particles have less mass
 - C) Their potential barriers to decay are higher and wider
 - D) Their decays include the emission of photons.
- 10. In an alpha decay the disintegration energy appears mainly as
 - A) Photon energies
 - B) The kinetic energies of the alpha and the daughter nucleus
 - C) The excitation energy of the daughter nucleus
 - D) heat

Sample Questions for M.Sc. Zoology

- Which of the following types of DNA replication or repair systems is dysfunctional in individuals with Xeroderma pigmentosum?
 - A) Mismatch repair
 - B) Base excision repair
 - C) Nucleotide excision repair
 - D) DNA helicase
- The part of the embryo from which ectoderm, endoderm and mesoderm are formed in chick is known as
 - A) Primitive streak
 - B) Hypoblast
 - C) Cytotrophoblast
 - D) Epiblast
- N- linked oligosaccharides on secreted glycoproteins are attached to
 - A) Nirtogen atoms in the polypeptide backbone
 - B) The serine or threonine in the sequence Asn-X-Ser/Thr
 - C) The amino terminus of the protein
 - D) The asparagines in the sequence Asn-X-Ser/Thr
- 4. Which of the following in star fish can turn inside out?
 - A) Madreporite
 - B) Stone canal
 - C) Tube feet
 - D) Cardiac stomach
- 5. Antennae in hymenoptera, dipteral and odonata are
 - A) Short & filiform, aristate, geniculate respectively
 - B) Short & filiform, geniculate, aristate respectively
 - C) Geniculate, aristate, short & filiform respectively
 - D) Aristate, geniculate, short & filiform respectively

- 6. Which of the following genus is the blood fluke of man and other animals?
 - A) Schistosoma
 - B) Ophisthorchis (Clonorchis)
 - C) Paragonimus
 - D) Diplozoom
- Populations that are morphologically similar but do not interbreed for physiological or behavioral reasons are grouped as
 - A) Races
 - B) Varieties
 - C) Sub-species
 - D) Sibling species
- The cranial capacity of which prehistoric human was almost the same as that of the modern man?
 - A) Neanderthal man
 - B) Peking man
 - C) Java ape man
 - D) Australophithecus man
- An example of competitive inhibition of an enzyme is the inhibition of
 - Succinic dehydrogenase by malonic acid
 - B) Cytochrome oxidase by cyanide
 - C) Hexokinase by glucose 6 phosphate
 - D) Carbonic anhydrase by carbon dioxide
- The isoelectric point of a protein is defined as
 - The pH at which the net charge on the molecule is zero
 - The pH at which all groups are protonated
 - C) The pH at which all groups are unprotonated
 - D) The pH at which each acidic groups is protonated and each basic groups is unprotonated.

Important Dates and Information for Entrance Test PU-CET (P.G.) –2023

| 1. | Date of Availability of PU-CET (P.G.) Prospectus and Online Entrance Test | 20-04-2023 (Thursday) |
|-----|---|--|
| | Form at http://cetpg.puchd.ac.in | |
| 2. | Last date for submission of information on the website to generate the Login and Password | 20-05-2023 (Saturday) |
| 3. | Last date for deposit of fee through Online Mode only | 23-05-2023 (Tuesday) |
| 4. | Last date for uploading of photograph, signature with rest of the information on the website | 25-05-2023 (Thursday) |
| 5. | Availability of Admit Card Online Admit Card along with Time &Centre of Examination is to be downloaded from the website by the candidate using his/her own Login ID and Password. The candidates will be communicated through email only for this purpose. | 05-06-2023 (Monday) |
| 6. | Candidates who have not completed their form but have paid their requisite fee, can complete their form by paying late fee of Rs. 500 | 07-06-2023 (Wednesday) |
| 7. | Dates of holding Entrance Test | 10-06-2023 (Saturday) & 11-06-2023 (Sunday) |
| 8. | Centre for Entrance Test | Chandigarh, Hoshiarpur, Ludhiana and Muktsar |
| 9. | Uploading of Answer Key (at http://exams.puchd.ac.in/show-noticeboard.php) and inviting Objections (through e-mail only to arcet@pu.ac.in) | 20-06-2023 (Tuesday) |
| 10. | Last date of submission of objections to the Answer Key | 22-06-2023 (Thursday) |
| 11. | Uploading of the response to the Objections and inviting Cross-objections (through e-mail only) | 27-06-2023 (Tuesday) |
| 12. | Last day of submission of Cross-objections to the Answer key | 29-06-2023 (Thursday) |
| 13. | Date of declaration of result | 05-07-2023 (Wednesday) |
| 14. | Date of availability of online Admission Form for the courses offered by University Departments/Centres at http://onlineadmissions.puchd.ac.in | Updated later on |

For Enquiries about Test contact(From 10:00 a.m to 04:00 p.m. on working days)

| 1. | Assistant Registrar (C.E.T.) | 0172- 2534829 |
|----|--------------------------------|---|
| 2. | Office Superintendent (C.E.T.) | 0172-2534829; 9814666346 |
| 3. | Dealing Official (C.E.T.) | 9872812339 |
| 3. | Controller of Examinations | 0172- 2534811, 2541825 |
| 4. | Enquiry Office | 0172- 2534818, 2534819, 2534866, 1801802065 |
| 4. | Enquiry Office | 0172-2334010, 2334013, 2334000, 1001002003 |

Note: Applying for Entrance Test and taking the Test do not entitle a candidate for admission. For admission to PU-CETPG based programmes being offered by various Department/Centre/Institute at Panjab University only, online Admission Form will have to be submitted by the Candidate separately. Availability of Online Admission Form will be updated later on. The candidates are required to fill up and submit online Admission Form at http://onlineadmissions.puchd.ac.in before the last date of submission of online Admission Form (to be announced later on) even if the result of Entrance Test has not been declared by then.

DATE SHEET PU-CET (P.G.) 2023

| Date and Day of Test | Course | Time of Examination |
|-------------------------|--|--------------------------|
| 10-06-2023 (Saturday) | M.Sc. (Computer Science) | 8.30 a.m. to 10.00 a.m. |
| | M.A. (Economics) | 8.30 a.m. to 10.00 a.m. |
| | M.Sc. (2 Yr. Course) Nuclear Medicine | 8.30 a.m. to 10.00 a.m. |
| | M.E. (Computer Science & Engg.) | 8.30 a.m. to 10.00 a.m. |
| | M.E. Civil Engg. (Construction Tech. & Mgt.) | 8.30 a.m. to 10.00 a.m. |
| | M.P.Ed. | 8.30 a.m. to 10.00 a.m. |
| | Masters in History | 8.30 a.m. to 10.00 a.m. |
| | M.Sc. (Statistics) (2 Yr. Course) | 8.30 a.m. to 10.00 a.m. |
| | M.Sc. (Geology) | 11.00 a.m. to 12.30 p.m. |
| | M.C.A. | 11.00 a.m. to 12.30 p.m. |
| | Masters in Disaster Management | 11.00 a.m. to 12.30 p.m. |
| | MBA for Executive (MBAfEX) | 11.00 a.m. to 12.30 p.m. |
| | M.Sc. (2 Yr Course) Human Genomics | 11.00 a.m. to 12.30 p.m. |
| | M.Sc. (Biochemistry) | 11.00 a.m. to 12.30 p.m. |
| | LL.M. | 11.00 a.m. to 12.30 p.m. |
| | B.P.Ed. | 11.00 a.m. to 12.30 p.m. |
| | M.Sc. (2 Yr. Course) Environment Science | 1.30 p.m. to 3.00 p.m. |
| | M.A. in Geoinformatics | 1.30 p.m. to 3.00 p.m. |
| | M.Sc. (Biophysics) | 1.30 p.m. to 3.00 p.m. |
| | M.Com. (Business Innovation) | 1.30 p.m. to 3.00 p.m. |
| | M.Sc. (2 Yr. Course) Instrumentation | 1.30 p.m. to 3.00 p.m. |
| | M.Sc. Forensic Science (2 Yr. Course) | 4.00 p.m. to 5.30 p.m. |
| | M.A. in English | 4.00 p.m. to 5.30 p.m. |
| | M.E. (Electronics & Communication Engg.) | 4.00 p.m. to 5.30 p.m. |
| | M.Sc. (Stem Cell & Tissue Engineering) | 4.00 p.m. to 5.30 p.m. |
| 11-06-2023 (Sunday) | M.Sc. (Chemistry) | 8.30 a.m. to 10.00 a.m |
| 11-06-2023 (Sullday) | M.Com. (Hons.) | 8.30 a.m. to 10.00 a.m. |
| | M.Sc. (2 Yr. Course) Microbial Biotechnology | 8.30 a.m. to 10.00 a.m. |
| | M.A. Journalism and Mass Communication | |
| | | 8.30 a.m. to 10.00 a.m. |
| | Masters of Social Work | 8.30 a.m. to 10.00 a.m. |
| | M.Sc. Physics/ Physics (specialization in Electronics); M.Sc. (2 Yr. Course) Medical Physics | 11.00 a.m. to 12.30 p.m. |
| | M.Sc. (Botany) | 11.00 a.m. to 12.30 p.m. |
| | M.E. Mechanical Engg. (Manufacturing Technology) | 11.00 a.m. to 12.30 p.m. |
| | Masters in Public Health | 11.00 a.m. to 12.30 p.m. |
| | M.Sc. (Zoology) | 1.30 p.m. to 3.00 p.m. |
| | M.E. Electrical Engg. (Instrumentation & Control) | 1.30 p.m. to 3.00 p.m. |
| | M.Com. (Business Economics) | 1.30 p.m. to 3.00 p.m. |
| | M.Sc. (System Biology and Bioinformatics) / M.Sc. (Bioinformatics) (2 Yr. Course) | 1.30 p.m. to 3.00 p.m. |
| | M.Sc. (Hons. / 2 Yr. Course) Mathematics | 4.00 p.m. to 5.30 p.m. |
| | M.A. (Geography) | 4.00 p.m. to 5.30 p.m. |
| | M.Sc. (Biotechnology) | 4.00 p.m. to 5.30 p.m. |
| | M.Com. (Master of Entrepreneurship and Family Business) | 4.00 p.m. to 5.30 p.m. |
| Centres for Examination | Chandigarh; Ludhiana; Muktsar; Hoshiarpur. | |

NOTE: Candidates desirous to appear in more than one of the above papers, must ensure that there is no clash of timings in those papers.