

PANJAB UNIVERSITY CHANDIGARH



(Established under the Panjab University Act VII of 1947-
Enacted by the Government of India)

PROSPECTUS PU-CET (P.G.) – 2024

**Dates of Test: 15th June 2024 (Saturday)
&
16th June 2024 (Sunday)**

**Last date for submission of information on the website to
generate the Login & Password: 24-05-2024 (Friday)
Website: <http://cetpg.puchd.ac.in>**

PU-CET (PG) FEE [Non-Refundable]

General Category:	Rs. 2520/-
SC/ST/PwD Category:	Rs. 1260/-
Additional Subject:	Rs. 710/- per additional subject

PANJAB UNIVERSITY ANTHEM

<p>तमसो मा ज्योतिर्गमयः 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 तू है अपना भविष्य विधाता पंख बिना परवाज़ सिखाता जीवन पुस्तक रोज़ पढ़ा कर सही गलत की समझ बढ़ाता जीवन पुस्तक रोज़ पढ़ा कर सही गलत की समझ बढ़ाता तेरी जय का शंख बजायें रौशन तारे बन जायें वखरी तेरी शोहरत तेरी शोहरत सदा सदा रहे पंजाब विश्वविद्यालय तेरी शान-ओ-शौकत सदा रहे पंजाब विश्वविद्यालय तेरी शान-ओ-शौकत सदा रहे तमसो मा ज्योतिर्गमयः तमसो मा ज्योतिर्गमयः</p>	<p>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</p>
---	---

PU- CET (P.G.) – 2024

Contents	Page No.
Number of Seats	4-8
Important Notes Common to all the Courses	9
Weightages (course-wise)	10
Fake & Derecognized Universities and Institutes	11
Eligibility Conditions, Scheme of Tests	12-24
Appendix A: Guidelines for General / Reserved Category/ Additional / NRI Seats	25-33
Appendix B: Specimen of Certificate for Reserved and additional category	
SUB APPENDIX B1: Schedule Caste / Scheduled Tribe Certificate	35
SUB APPENDIX B2: Backward Class Certificate	36
SUB APPENDIX B 2 (A): Self declaration proforma to be submitted by the person belonging to backward class at the time of recruitment/ admission	37
SUB APPENDIX B 3: Certificate for only girl child/ one out of two girl children	38
SUB APPENDIX B 4: Certificate for admission under Defence Category	39
SUB APPENDIX B 5: Certificate from the candidate from Border Area School	40
SUB APPENDIX B 6: Certificate from the candidate from Rural Area School	41
SUB APPENDIX B 7: Certificate of children/ grandchildren of Freedom Fighter	42
Appendix C: Specimen of Forms / Certificates for Medical Records	43-54
Appendix D: Guidelines for Admission to the Reserved Category of Sports	55-57
ANNEXURE I: Undertaking for achievements of Sports	58
ANNEXURE II: Undertaking for Attendance in Sports Ground	59
ANNEXURE III: Skill and Game Performance Test for admission under Reserved Category of Sports	60
Gradation Criteria	61-63
General Rules	64-67
Instructions for giving answers on OMR Answer Sheet	68
Sample Questions	69-107
Important Dates/ Information	108
Date sheet	109

Published by:

Prof. Jagat Bhushan, Controller of Examinations,
Panjab University, Chandigarh

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 National
	LL.M. (One-Year Course) (Semester System) (Self Financing Course)	University Institute of Legal Studies (UILS), P.U., Chandigarh	50	4 NRI + 2 Foreign National
	LL.M. (2-Year Course) (Semester System)(Self Financing Course)		a) 25 (for Advocates/Judicial/Officer/Civil Servants discharging Judicial Duties) ^e b) 25 (for Fresh Law Graduates)	2 NRI + 1 Foreign National 2 NRI+ 1 Foreign National
	LL.M. (One -Year Course) (Semester System) (Self financing course)	UIL, Panjab University Regional Centre, Ludhiana.	26 + 10 Other Additional Seats	2NRI + 1 Foreign National
	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 National
		Panjab University Swami Sarvanand Giri, Regional Centre, Hoshiarpur	50+3 ^c	5 NRI + 3 Foreign National
		(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 National
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)	Department of Geography, P.U., Chandigarh.	51	7NRI + 3 Foreign National
7.	Master in Disaster Management		25+3 ^g	3 NRI + 1 Foreign National
8.	Master in Geo-informatics		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 National

*NOTE: * Eligible NRI/ Foreign Nationals candidates, please consult the guidelines available at Page No. 28-33of the Prospectus.*

^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	M.Tech. (Instrumentation)	University Centre of Instrumentation and Microelectronics (UCIM)	10+ 3 (SC/ST)	2 NRI + 1 Foreign National
13	M.Com (Business Economics)	DAV College, Sector-10, Chandigarh.	40	-
		Guru Nanak Girls College, Model Town, Ludhiana.	40	-
14	M.Com. (Master of Entrepreneurship and Family Business)	GGDSD College, Sector – 32, Chandigarh.	40	-
		Kamla Lothia S.D. College, Ludhiana.	40	-
15	M. Com. (Hons.) (Under Hons. School System at UBS w.e.f. 2019-2021)	University Business School, P.U., Chandigarh.	27	3 NRI + 1 Foreign National
16	M.Com (Business Innovation)	S.C.D. Government College, Ludhiana.	40	-
		Govt. College for Girls, Ludhiana	40	-
17	Master of Business Administration for Executives (Under Hons. School System at UBS w.e.f. 2019-2021)	University Business School, P.U., Chandigarh. (Meant only for working professionals. Classes to be held in the evening).	30	3 NRI + 2 Foreign National
18	Master of Physical Education	Department of Physical Education, P.U., Chandigarh.	28	2 NRI + 1 Foreign National
19	Bachelor of Physical Education		34	2 NRI + 2 Foreign National

M. Sc. Under the framework of Honours School System

20	Biochemistry	Department of Biochemistry, P.U., Chandigarh.	30 ¹	4NRI + 2 Foreign National
21	Biophysics	Department of Biophysics, P.U., Chandigarh.	25 ¹	4 NRI+1 Foreign National
22	Computer Science (Specialisation in Data Science)	Department of Computer Science & Applications P.U., Chandigarh.	20	2 NRI+ 1 Foreign National
23	Mathematics	Department of Mathematics P.U., Chandigarh.	30	5 NRI+ 2 Foreign National
24	Physics (Specialisation in Electronics)¹ (Self Financing Course)	Department of Physics, P.U., Chandigarh.	20	3 NRI+ 1 Foreign National
25	Geology	Department of Geology, P.U., Chandigarh	5	4 NRI+2 Foreign National

M. Sc. (Two-Year Course)

26	Bioinformatics¹	GGDSD College Sector 32, Chandigarh.	40	-
27	Chemistry	MCM DAV College, Sector 36, Chandigarh	40	-
		Sri Guru Gobind Singh College, Sector 26, Chandigarh	40	-
28	Environment Science	Department of Environment Studies, P.U., Chandigarh.	20	3 NRI+ 1 Foreign National
29	Human Genomics	National Centre for Human Genomes Studies & Research, P.U., Chandigarh.	15	2 NRI+1 Foreign National
30	Instrumentation	UCIM, P.U., Chandigarh	10	2 NRI+1 Foreign National
31	Nuclear Medicine	Centre for Nuclear Medicine, P.U., Chandigarh.	10	2 NRI
32	Stem Cell Tissue Engineering	Centre for Stem Cell Tissue Engineering and Biomedical Excellence, P.U., Chandigarh	15	2 NRI
33	System Biology and Bioinformatics	Centre for System Biology and Bioinformatics P.U., Chandigarh.	13	2 NRI+1 Foreign National

¹The 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.

²The entrance test for Medical Physical, Physics (specialisation with electronics) and Physics will be common.

34	Microbial Biotechnology	Deptt. for Microbial Biotechnology, P.U., Chandigarh.	25	2 NRI+ 1 Foreign National
		Sri Guru Gobind Singh College, Sector 26, Chandigarh.	40	-
35	Mathematics	BAM Khalsa College, Garhshankar, Distt. Hoshiarpur.	60	-
		Sri Guru Gobind Singh College, Sector 26, Chandigarh	40	-
36	Medical Physics^l	Centre for Medical Physics, P.U., Chandigarh.	10	2 NRI
37	Forensic Science	Institute of Forensic Science & Criminology, P.U., Chandigarh.	19 + 1 (In-service candidate from govt. organizations / autonomous institute)	2 NRI+ 1 Foreign National
38	Physics	Sri Guru Gobind Singh College, Sector 26, Chandigarh	40	-
39	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^l)				
40	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	
41	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	-
42	Chemistry	Department of Chemistry, P.U., Chandigarh, offers Hons. School course	15	2 NRI+ 1 Foreign National
		Post Graduate Govt. College, Sector 11, 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	

^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.

^l 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.

		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	40	
		Dev Samaj College for Women, Ferozepur City	40	-
		SCD Govt. College, Civil Lines, Ludhiana	40	-
		A.S. College Khanna, Ludhiana	40	-
		BAM Khalsa College, Garhshankar, Distt. Hoshiarpur.	40	-
43	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, Gurusar 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	40	-
		S.C.D. Govt. College, Civil Lines, Ludhiana	40	-
		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	-
		SGGS Sector 26, Chandigarh	40	-

43	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 42, 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. 2520/- (Rs. 1260/- 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. 710/- 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 04-06-2024 (Tuesday) 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>. No separate 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 above at **Sr. No. 6 and 7**.
- 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:
 - a) 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:

Course	Weightage (%)	
	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.Tech. (Instrumentation)	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 (Specialisation in Data 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 / Microbial Biotechnology / Statistics	50	50
M.Sc. (Two-Year Course) Medical Physics	60	40
M.Sc. (Two-Year Course) Instrumentation	60	40

* 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.

- 1 Andhra Pradesh Christ New Testament Deemed University, #32-32-2003, 7th Lane, Kakumanuvarithoto, Guntur, Andhra Pradesh-522002 and another address of Christ New Testament Deemed University, Fit No. 301, Grace Villa Apts., 7/5, Srinagar, Guntur, Andhra Pradesh-522002
- 2 Andhra Pradesh Bible Open University of India, H.No. 49-35-26, N.G.O's Colony, Visakhapatnam, Andhra Pradesh-530016
- 3 Delhi All India Institute of Public & Physical Health Sciences (AIIPHS) State Government University, Office Kh. No. 608-609, 1st Floor, Sant Kripal Singh Public Trust Building, Near BDO Office, Alipur, Delhi-110036
- 4 Delhi Commercial University Ltd., Daryaganj, Delhi.
- 5 Delhi United Nations University, Delhi
- 6 Delhi Vocational University, Delhi
- 7 Delhi ADR-Centric Juridical University, ADR House, 8J, Gopala Tower, 25 Rajendra Place, New Delhi - 110 008
- 8 Delhi Indian Institute of Science and Engineering, New Delhi
- 9 Delhi Viswakarma Open University for Self-Employment, Rozgar Sewasadan, 672, Sanjay Enclave, Opp. GTK Depot, Delhi-110033
- 10 Delhi Adhyatmik Vishwavidyalaya (Spiritual University), 351-352, Phase-I, Block-A, Vijay Vihar, Rithala, Rohini, Delhi-110085
- 11 Karnataka Badaganvi Sarkar World Open University Education Society, Gokak, Belgaum, Karnataka
- 12 Kerala St. John's University, Kishanattam, Kerala
- 13 Maharashtra Raja Arabic University, Nagpur, Maharashtra
- 14 Puducherry Sree Bodhi Academy of Higher Education, No. 186, Thilaspeta, Vazhuthavoor Road, Puducherry-605009
- 15 Uttar Pradesh Gandhi Hindi Vidyapith, Prayag, Allahabad, Uttar Pradesh
- 16 Uttar Pradesh Netaji Subhash Chandra Bose University (Open University), Achaltal, Aligarh, Uttar Pradesh
- 17 Uttar Pradesh Bhartiya Shiksha Parishad, Bharat Bhawan, Matiyari Chinhat, Faizabad Road, Lucknow, Uttar Pradesh – 227 105
- 18 Uttar Pradesh Mahamaya Technical University, PO - Maharishi Nagar , Distt. Gb Nagar , Opp. Sec 110 , Sector 110 , Noida – 201304
- 19 West Bengal Indian Institute of Alternative Medicine, Kolkatta.
- 20 West Bengal Institute of Alternative Medicine and Research, 8-A, Diamond Harbour Road, Builtech inn, 2nd Floor, Thakurpurkur, Kolkatta – 700063

The Examinations conducted by the following Universities stand de-recognized by Panjab University, Chandigarh.

1. E.I.I.L.M. University, Jorethang, Sikkim w.e.f. the session 2014-15.
2. C.M.J. University, Shillong, Meghalaya, w.e.f. the session 2016-17.

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. (Hons.) 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 Act & 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. (Self-Financing) 2-Year Course

Eligibility Conditions

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

- i) 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).

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

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

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

Scheme of Test

The test of 1 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
3. 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 GET 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:

- (i) 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.
- (iii) 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. ¼ 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>	<u>No. of questions</u>
(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- (Industrial Economics, Agricultural Economics, International Economics, Public Finance and Money and Banking)	(2 from each)
(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:

- Bachelor's degree in any discipline with at least 50% marks from a recognized University / Institute.
- The Candidate belonging to SC/ST/BC/PwD categories shall be allowed 5% relaxation in the eligibility requirements.
- 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.Tech. (Instrumentation)

Eligibility Conditions

B.E. / B.Tech. (Chemical / Computer/ Electrical/ Electronics/ Mechanical / Production/ Instrumentation/ Bio-medical Engineering or equivalent degree or M.Sc. in Physics / Electronics / Instrumentation in (as approved by AICTE) with minimum 50% marks in aggregate. 5% concession is admissible in eligibility marks to SC/ST/BC/PwD candidates.

Preferences will be given to GATE qualified candidates.

Candidates appearing for PU-CET (P.G.) will be given admission if some seats remain vacant after exhausting the list of GATE qualified candidates.

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.Com. (Business Economics)

Eligibility Conditions

- 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 England and (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.

Or

- (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 3rd Year 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**
- c) 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 –

- (i) 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) The applicant should be holding Executive position 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 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;

OR

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 in-service 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 3rd Year together) in the relevant subject.

M.Sc. Computer Science (Specialisation in Data 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.

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) (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 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:

The question paper will comprise of Section A and Section B 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 four sub-sections 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)

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

OR

50% marks in B.A. / B.Sc. (General or Honours) in any subject under CBCS with 24 credits in Mathematics / Statistics as Generic Elective (GE) (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-Moivre'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 School 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-2024 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, 2024.

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) Deaf
 - ii) Hard of Hearing
- d. Speech and language disability

B) Intellectual disability

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

C) Mental behavior (Mental Illness)

* 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.

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 inter-se.
- 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 55-63) .
- (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) :-
 1. Son/Daughter/ Spouse of such Defence personnel and CAPF personnel¹whodiedinaction.(Only those who were wholly dependent on such personnel shall be considered).
 2. 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.
 5. Son/daughter/spouse of serving Defence personnel and CAPF who are wholly dependent on them.
 6. Ex-Servicemen
 7. Serving Defence personnel CAPF personnel

1. 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.
2. Incapacitation will mean incapacitation leading to the discharge of the person by concerned authorities
3. 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
 - 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

For admission to evening courses, categories 2, 4 and 5 above will not be considered since the term 'wholly dependent' 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 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) One Additional seat for Transgender

One additional seat has been created for transgender students from the session 2024-25 onwards in each course in the Panjab University Teaching departments, Panjab University Regional Centres, Panjab University Constituent Colleges and the Colleges affiliated to the University, subject to the following eligibility conditions, provided the concerned Regulatory Body permits –

- i) the candidate seeking admission is otherwise eligible as per Panjab University Rules.
- ii) the claimant candidate will have to submit a validated Transgender Certificate from the Ministry of Social Justice and Empowerment or Certificate of Identity as well as Identity Card issued by the District Magistrate as per the format given under 'The Transgender Persons (Protection of Rights) Rules, 2020 reach with the Transgender Persons (Protection of Rights) Act, 2019.

GUIDELINES FOR INTERNATIONAL STUDENTS

Important: For candidates seeking admission to UG/PG programmes under NRI/FN Category, the condition of appearing in Entrance Test is waived off from the academic session 2024-25.

Important links:

- Indian Council for Cultural Relations (ICCR): <https://www.iccr.gov.in>
- Study in India Programme: <https://studyinindia.gov.in/>
- Direct Admission to PU (Self Financed): <https://admissions.puchd.ac.in>
- Fees:<https://dis.puchd.ac.in/includes/noticeboard/2024/20240404121102-revisedfeestructureforinternationalstudents.pdf?202412041345>
- Seats:<https://dis.puchd.ac.in/includes/noticeboard/2024/20240402155208-coursewiseseatsfornriforeignnationalstudentsacademicession2024-25.pdf?202412041345>

International Students may seek admission to any course offered by the Panjab University choosing any of the following modes through the Office of the Dean International Students.

i. Indian Council for Cultural Relations (ICCR) <https://www.iccr.gov.in/home>

Candidates with nomination/sponsorship by any Foreign State, Embassy or Authority in India/Ministry of Govt. of India under a Study in India/Exchange Programme, etc. subject to the condition that the Foreign National candidate is eligible to seek admission as per the regulation of the course.

ii. Study in India Programme (SII) (<https://studyinindia.gov.in/>)

Government of India has launched 'Study in India' Programme to provide easy access to the international students to study in the best institutions in India. Under the programme, premier educational institutions of India have offered more than 15000 seats for eligible foreign students in various disciplines.

- **Direct Admission to PU (Self Financed)** (<https://admissions.puchd.ac.in>)
International students seeking admission to any course offered by the Panjab University may apply online within the stipulated time as and when notified by the PU. (check www.puchd.ac.in for admission schedule)

The definition of the terms, "Foreign Nationals, Non-resident Indians and Wards" be considered as under:-

(1) Foreign Nationals (FN):

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 (NRI):

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.

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.

I. GENERAL RULES FOR NRI/FOREIGN NATIONAL STUDENTS

- 1) 10% seats over and above the total number of sanctioned seats in each course are reserved for NRI candidates.
- 2) 5% seats over and above the total number of sanctioned seats in each course are reserved for Foreign Nationals.
- 3) 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 counseling for NRI /Foreign National or after exhausting the waiting list of NRI/Foreign Nationals.
- 4) In case, the number of eligible Foreign Nationals seeking admission exceeds the number of seats available, the Vice-Chancellor, Panjab University is authorized to sanction additional seats to the Foreign Nationals only.
- 5) Seats created for NRI/Foreign Nationals shall not be allowed to be converted into General Category.
- 6) NRI/Foreign National candidates seeking admission to the concerned course are required to compete amongst themselves for the seats created for NRI/FN category.
- 7) A candidate admitted under NRI/FN quota may change his/her admission to a vacant seat in General /Reserved Category provided the merit of the candidate falls within the list of candidates admitted in General/Reserve Category.
- 8) 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.
- 9) 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.
- 10) Order of preference of NRI/FN and their Wards to determine merit for admission purpose is as given below:
 - a) NRI/FN candidates
 - b) Wards of NRIs/FN

II. ELIGIBILITY AND ADMISSION CRITERION

1. The candidates seeking admission to any course must meet the eligibility criteria of that particular course as mentioned on the website of the respective Department/Institute/Centre or Handbook of Information available at the link <https://dui.puchd.ac.in/handbookofinformation.php>.
2. The candidates seeking admission to any course which is governed by Regulatory Bodies (e.g. Medical Council/Dental Council/Bar Council of India/Pharmacy Council of India for admission to Medical/Dental/Law courses etc.) must possess the basic qualification prescribed by the respective Regulatory Body. The Rules of respective Regulatory Bodies shall apply as amended from time to time.
3. The candidates from non-English speaking countries seeking admission to any courses are required to submit a certificate of IELTS academic score (at least Band 5) or TOEFL score (at least 60).
4. Admission to all Engineering courses against NRI/FN 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.
5. The candidates seeking admission to B.P.Ed. and M.P.Ed. (Physical Education), are required to undergo mandatory Physical Efficiency Test. The scores of Physical Efficiency Test will be counted for determining merit.
6. The NRI/Foreign Nationals candidates wishing to join any of the University Teaching Departments of 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.
7. After obtaining the Eligibility Certificate, the candidate should submit the same to the concerned Department/College where he/she is seeking admission. The Eligibility Form should be accompanied by a forwarding letter from the Principal of the College/Chairperson of the Teaching Department indicating the reason for denying the admission to the candidate. (<https://forms.puchd.ac.in/forms/20120724162131-Eligibility-Form-For-Foreign-Students.pdf?113303091224>)

III. ADMISSION TO PROGRAMMES OFFERED BY CENTRE FOR DISTANCE & ONLINE EDUCATION (CDOE, FORMERLY USOL), PANJAB UNIVERSITY, CHANDIGARH:

<https://cdoe.puchd.ac.in/includes/noticeboard/2023/20230805153602-prospectus2023-24dated04-08-2023.pdf?202410034937>

(Telephone: +91 172 2541143, 2534301, Email: cdoe@pu.ac.in, chairperson.cdoe@pu.ac.in)

- 1) Admission shall be open to any Indian National who resides in any part of India, temporarily stays in a foreign country and who satisfies the admission requirements.
- 2) *Foreign Nationals working in the foreign missions in India and their dependents residing with them may also apply for admission, subject to the condition that before submitting their Admission cum Examination Form, they are required to obtain Eligibility Certificate from the Registrar, Panjab University Chandigarh.
- 3) *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 CDOE even while staying in their respective countries, subject to the number of chances available in the respective examinations as provided in the Regulations

Explanation*: Admission of foreign students will be confirmed only after the approval of Syndicate/Dean International Students, Panjab University.

IV. CERTIFICATES/DOCUMENTS REQUIRED FOR ADMISSION

The NRI/Foreign Nationals candidates shall provide the following certificates/documents:

- 1) 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.
- 2) Test Score of TOEFL/IELTS etc.
- 3) Relevant Documents to claim NRI/NRI Sponsor/FN Seat
- 4) Proof of relationship of candidate with Guardian/Sponsor
- 5) Affidavits from the candidate and Guardian/Sponsor
- 6) PR Card/Passport of the Guardian/sponsor (from the country he/she resides)
- 7) The Foreign National 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. (<https://indianfro.gov.in/eservices/home.jsp>)
- 8) 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
- 9) Each NRI/Foreign Student is required to submit "Students Welfare Fee" @ Rs.1500/- per student (in case of PU students only) 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).

V. FORMAT OF AFFIDEVITS/UNDERTAKINGS/ FSIS FORM TO BE SUBMITTED BY THE CANDIDATE:

**AFFIDAVIT ATTESTED BY NOTARY OR ANY OTHER COMPETENT AUTHORITY, AUTHORIZED BY
THE CONCERNED COUNTRY**

I _____ S/o D/o Sh. _____ Resident of _____ and
guardian of _____ Resident of _____
who is seeking admission in the Department of _____ Panjab University, Chandigarh, declares
and affirms that:

I shall be responsible for timely payment of prescribed tuition fees (payable annually) and all other dues and charges in full (and not in part/installments) to the Panjab University, Chandigarh immediately after the admission is granted to the above candidate as also during the subsequent years of studies.

Tuition fee shall be paid by me in the form of bank Draft in U.S. Dollars/Pounds/sterling/Euros or equivalent amount in Indian currency payable to the Registrar, Panjab University, Chandigarh along with a bank certificate for encashment of foreign currency of the like amount.

In addition to tuition fee, I shall also pay all other dues and charges to the Panjab University as payable by other students of the same class belonging to the same category in the foreign currency or in Indian Rupees as per University Rules and Regulations.

I understand that in case of failure to pay Fees and dues on time, the admission will automatically stand cancelled and fee already paid will not be refundable. Neither I nor the candidate shall have any claim against the University on any account whatsoever.

I am attaching copy of my Passport along with the VISA document, residence proof, working proof (job _____)

Date _____

Place: _____

Signature of the Guardian _____

Witness 1

Signature: _____

Address: _____

Witness 2

Signature: _____

Address: _____

Passport Number _____ Date of validity _____
Country _____

Countersigned (Candidate seeking admission)

AFFIDAVIT

I _____ S/D/o Sh. _____ Resident of _____
_____ who is seeking Admission in the Department of _____ in _____ (course),

Panjab University, Chandigarh, declare and affirm that:

Mr./Ms. (mention name of NRI relative) S/o Sh. resident of

..... (Address, name of country), Passport no is

(for example: real brother of my mother/father) Sh./Smt i.e., real
(paternal/maternal) (mention real relationship with candidate).

He shall be responsible for timely payment of prescribed tuition fees (payable annually) and all other dues and charges in full (and not in part/installments) to the Panjab University, Chandigarh immediately after the admission is granted to the above candidate as also during the subsequent years of studies.

Tuition fee shall be paid by Mr./Ms. (mention name of NRI relative) in the form of bank Draft in U.S. Dollars/Pounds/sterling/Euros or equivalent amount in Indian currency payable to the Registrar, Panjab University, Chandigarh along with a bank certificate for encashment of foreign currency of the like amount.

In addition to tuition fee, Mr./Ms. (mention name of NRI relative) shall also pay all other dues and charges to the Panjab University as payable by other students of the same class belonging to the same category in the foreign currency or in Indian Rupees as per University Rules and Regulations.

I understand that in case of failure to pay Fees and dues on time, the admission will automatically stand cancelled and fee already paid will not be refundable. I shall not have any claim against the University on any account whatsoever.

Date: _____

Signature of the Candidate

Place: _____ Signature of the Father

Signature of the Mother

Address: _____

(Undertaking on Separate page)

UNDERTAKING

I _____ S/D/o Sh. _____ Undertake and affirm that I am a NRI and living in _____ My address in _____ is _____. I am guardian of Mr/Miss _____. The affidavit, as desired, is enclosed here with for his/her admission in _____ under NRI quota. I undertake to pay his/her tuition fees (payable annually) and all other dues and charges in foreign currency after his/her admission and during subsequent years to the Panjab University, Chandigarh.

This affidavit is prepared in India because at present I am residing in India. [Mention, if applicable]

Date: _____

Place: _____

Signature of the Guardian (NRI)

FSIS Form (To be submitted after Confirmation of Admission)

1. Name.....
2. Father's Name.....
3. Date of Birth.....
4. Sex (Male/Female).....
5. Martial Status (Single/Married).....
6. Nationality.....
7. Particulars of Passport & Visa :
 - (a) Passport No. & Date
 - (b) Issuing Authority
 - (c) Valid upto
 - (d) Indian Visa/Entry Number
 - (e) Visa valid upto
8. Senior Supdt. Of Police-cum-Foreigner's Registration Office No. & Date:-
.....
9. Date of First Arrival:-
 - (a) In India
 - (b) In Chandigarh
10. Permanent Address
(in their Country)
11. Name & Address of
Local Guardian, if any
12. Name & Address/Telephone No. of other Person to be contacted in emergency
.....
13. Status as Student - -----
(Cultural Scholar/Self
supporting/any other)
14. University Department/ College where enrolled
15. ClassRoll No.
16. Address in Chandigarh

Signature of the Student Dated: _____

Countersigned Chairperson of the Department .

NOTE:

Specimen of forms of certificates to be attached to admission forms wherever applicable has been provided in the prospectus (pp. 35-54)

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	BC	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 vice-versa.
- 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

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

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
- (f) Signature of issuing authority along with the designation, seals and date

Authorities Empowered to issue SC/ST certificate

1. 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/ Kumari _____ son/daughter of Sh. _____ village _____ District / Division _____ in the state of _____ belongs to _____ community which is recognized as a Backward Class under the _____, Department of Welfare of SCs and BCs vide notification No. _____ dated _____ Shri / Smt/ Kumari _____ and / or his / her family ordinarily reside(s) in the _____ District / Division of the State of Punjab.

This is also to certify that he/she does not belong to the persons / sections (creamy Layer) mentioned in the column 3 of the Schedule to the Government of Punjab, Department of Welfare and SCs and BCs notification No. 1/41/93-RCI/ dated 17-01-1994, as amended vide Notification No. 1/41/93-RCI/1597 dated 17-08-2005, Notification No. 1/41/93-RCI/209 dated 24-02-2009 and notification No. 1/41/93-RCI/609 dated 24.10.2013.

Date of Issuance _____

Signature of Issuing Authority: _____

Space for Photograph

Designation _____
Date: _____
Place: _____

Note: The term "Ordinarily" used here will have same meaning as in Section 20 of Representative of People Act, 1950

Authorities Empowered to issue Backward Class Certificate	Criteria for Admission under this Category
1. Deputy Commissioner 2. Additional Deputy Commissioner 3. Sub Divisional Magistrate 4. Executive Magistrate 5. Tehsildar 6. Naib Tehsildar 7. Block Officer 8. District Revenue Officer	1. 5% Seats Reserved for persons belongs to this category 2. Candidate must belong to non-creamy layer as defined by the latest rules of Govt. Of India 3. * A BC Certificate issued by a competent authority in any format and on any date shall be accepted by PU. 4. Candidate whose certificate is older than one year from the date of issue must submit the self declaration as per Sub Appendix B2(A).

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
_____ Resident _____ of
_____ Village / _____ Tehsil/ _____ City
_____ District _____ hereby declare that I
_____ belong to _____ caste and this caste
has been declared as backward class by State Government as per letter No. _____ dated
_____.

I hereby declare that, I do not come under Column-3 of the Schedule to the Government of Punjab, Department of Welfare of SCs and BCs notification No. 1/41/93-RC-1/459 dated 17.01.94 as amended vide notification No. 1/41/93-RCI/1597 dated 17-08-1005, notification No. 1/41/93-RCI/209 dated 04.02.2009 and notification No. 1/41/93-RCI/609 dated 24.10.2013.

Place: _____ Declarant
Date: _____

Verification:

I hereby declare that the above submitted information is correct as per my understanding and nothing has been concealed herein. I am well versed with the facts that I would be liable to face any punishment prescribed by law in case my above information is found to be false and the benefits granted to me (the applicant) will be withdrawn.

Place: _____ Declarant
Date: _____

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

I / We, _____ (father) and _____ (mother) of Miss _____ (full address to be given) resident of House No. _____ Street/Sector _____ Town / City/ Village _____ District/State _____ do hereby solemnly declare and affirm as under:-

1. That I am / we are citizens of India.
2. That Miss _____ born on _____ is our girl child.
3. That we have no male child.
4. That we have the following only two girls and none else :
 - (i) Name _____ (i) Name _____
 - (ii) Date of Birth _____ (ii) Date of Birth _____
5. That none of the above mentioned two girl children has obtained/availed the benefit granted under this category, in this University/Institute including its affiliated colleges.

Signature

(Father)

Signature

(Mother)

Place:

Dated:

NOTE: Who can apply under this category?

Single Girl Child

OR

One Girl Child out of only Two Girl Children*.

*Clarification: This Seat shall not be available for:-

- i) Those having three or more girl children.
- ii) Those having any male child.

SUB APPENDIX B4
CERTIFICATE FOR ADMISSION UNDER DEFENCE CATEGORY

Dispatch No. _____ Dated _____

Certified _____ that _____ son/daughter/spouse of _____ Rank _____ (if applicable) an applicant for admission to _____ course(s) in the department of _____ Panjab University, is

1. Son/Daughter/Spouse of such Defence and Central Armed Police Force (CAPF)* personnel who died in action on _____ during _____. (Only those who are wholly dependent on such personnel shall be considered).
2. Son/Daughter/Spouse who is wholly dependent on such Defence and CAPF personnel who were incapacitated/died on _____ while in service.
3. Defence and CAPF personnel who were incapacitated while in service.
4. Son/daughter/spouse of ex-servicemen who are wholly dependent on them.
5. Son/daughter/spouse of serving Defence personnel and CAPF who are wholly dependent on them.
6. Ex-servicemen.
7. Serving Defence personnel and CAPF personnel.

Name of the Certifying Officer

Designation

Signature of authorized Military/
Central Armed Police Forces Officer
(with official seal)

* 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. _____ son/ daughter of Sh. _____ and Smt. _____ resident of _____ has passed the Matriculation from a school situated in Border Area.

It is further certified that Mr. / Ms. _____ has studied in the institution(s) as per date of joining and leaving school as given below :-

	Name of School	Date of joining	Date of leaving
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____

Place:
Date:

Seal and Signature
(Tehsildar / Principal / Headmaster)

* 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./Ms. _____ son/ daughter of Sh. _____ and Smt. _____ resident of _____ has passed the matriculation and +2 examination from Rural School(s) that does not fall in the area of the Municipal Corporation / Municipal Committee / Small Town / Notified Area/Cantonment Area. The date of joining and leaving the school is given below:-

	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 No: _____

Dated: _____

Certified that Mr./Ms./Mx. _____ (freedom fighter) son/daughter of Shri _____ of Village _____ Post Office _____ Tehsil _____ District _____ and Parent /Grand Parent of Mr./Ms./Mx. _____ (Name of the Candidate), a bonafide political sufferer and has been drawing freedom fighter's pension from _____ Treasury or has been awarded Tamar Patra for his/her political suffering.

Place:

Date:

*Deputy Commissioner

(with Seal of the 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 1st 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 at BGJIH)
Items Nos. 1 to 8 below to be filled in by the candidate

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
No. _____ Date _____ Rs. _____
7. Roll No. (allotted by the Department): _____
8. History of any previous or existing illness: Yes/No (If yes mention details)
 - I. Like Epilepsy (seizures), Hypertension, Bronchitis, Bronchial Asthma, Tuberculosis, Rheumatic Heart Disease, Diabetes etc : Yes/No
 - II. History of any operation/Surgery : Yes/No
 - III. History of any regular medication : Yes/No
 - IV. History of any kind of allergy : Yes/No

(Signature of the candidate to be
Attested by the chairman)

(Signature of the candidate in the
presence of the examining Doctor)

(Signature of the chairman with seal
of the department)

Medical Examination

- a) Pulse _____/min. Blood Pressure _____ mmHg (sitting)
- b) Vision (without glasses) Right _____ Left _____ Colour Vision _____
- c) Vision (with glasses) Right _____ Left _____
- A. Systemic Examination of CNS/Chest/CVS/Abdomen/Limbs
- 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 the presence of the Government Medical Attendant or Medical Practitioner. (with qualifications-MBBS or above)

Identification marks:-

- a. _____
- b. _____

I, Dr. _____ after careful examination of the case certify hereby that _____ whose signature is given above is suffering from _____ and I consider that a period of absence from duty of _____ with effect from _____ is absolutely necessary 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.

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-II, 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
6. Address:
 - (a) Permanent address

 - (b) Current Address (i.e. for communication)

 - (c) Period since when residing at current address

7. Educational Status (Pl. tick as applicable)
 - I. Post Graduate
 - II. Graduate
 - III. Diploma
 - IV. Higher Secondary
 - V. High School
 - VI. Middle
 - VII. Primary
 - VIII. Non-literate
8. Occupation _____
9. Identification marks (i) _____ (ii) _____
10. 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 past _____ YES/NO
(ii) If yes, details:
 - a. Authority to whom and district in which applied

 - b. Result of application _____
13. Have you ever been issued a disability certificate in the past? If yes, please enclose a true copy.

Declaration: I hereby declare that all particulars stated above are true to the best of my knowledge and belief, and no material information has been concealed or misstated. I further, state that if any inaccuracy is detected in the application, I shall be liable to forfeiture of any benefits derived and other action as per law.

(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)

Date:

Place:

Encl:

1. 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.
4. Two recent passport size photographs

(For office use only)

Date:
Place:

Signature of issuing authority

Stamp

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 carefully examined Shri/Smt./Kum. _____ son/wife/daughter of
Shri _____ Date of Birth (DD/MM/YY) _____ Age _____ years, male/female, Registration
No. _____ permanent resident of House No. _____
Ward/Village/Street _____ Post Office _____, District _____,
State _____, whose photograph is affixed above, and am satisfied that:

(B) He/she is a case of:

- locomotor disability
- dwarfism
- blindness

(Please tick as applicable)

(B) the diagnosis in his/her case is _____

(C) He/She has _____ % (in figure) _____ percent (in words) permanent locomotor disability /
dwarfism / blindness in relation to his her _____ (part of body) as per guidelines (.....
number and date of issue of the guidelines to be specified).

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

Nature of Document	Date of Issue	Details of authority issuing certificate

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

Signature and Seal of Authorised Signatory
of Notified Medical Authority

Form-III Disability Certificate

(In case of multiple disabilities)

(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 we have carefully examined Shri/Smt./Kum. _____ son/wife/daughter of Shri _____ Date of Birth (DD/MM/YY) _____ Age _____ years, male/female, Registration No. _____ permanent resident of House No. _____ Ward/Village/Street _____ Post Office _____, District _____, State _____, whose photograph is affixed above, and are satisfied that:

- (A) He/she is a case of Multiple Disability. His/her extent of permanent physical impairment/disability has been evaluated as per guidelines (..... Number and date of issue of the guidelines to be specified) for the disabilities ticked below, and shown against the relevant disability in 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	X		
13.	Specific Learning Disability			
14.	Autism Spectrum Disability			
15.	Mental-illness	X		
16.	Chronic Neurological conditions			
17.	Multiple sclerosis			
18.	Parkinson's disease			
19.	Haemophilia			
20.	Thalassemia			
21.	Sickle Cell disease			

- (B) In the Light of the above, his /her over all permanent physical impairment as per guidelines (..... number and date of issue of the guidelines to be specified), is as follows

In figures :- _____ percent

In words: _____ percent

2. This condition is progressive/non-progressive/likely to improve/not likely to improve.

3. Reassessment of disability is:

(i) not necessary.

Or

(ii) is recommended/after _____ years _____ months, and therefore, this certificate shall be valid till (DD / MM /YY) _____

@ - 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 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)

Certificate No. _____

Date: _____

This is to certify that I have carefully examined Shri/Smt./Kum. _____ son/wife/daughter of Shri _____ Date of Birth (DD/MM/YY) _____ Age _____ years, male/female, Registration No. _____ permanent resident of _____ House No. _____ Ward/Village/Street _____ Post Office _____, District _____, State _____, whose photograph is affixed above, and am satisfied that he/she is a case of _____ disability. His/her extent of percentage physical impairment/disability has been evaluated as per guidelines (to be specified) and is shown against the relevant disability in 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.	Cerebral Palsy			
5.	Acid attack Victim			
6.	Low vision	#		
7.	Deaf	£		
8.	Hard of Hearing			
9.	Speech and language disability			
10.	Intellectual disability	X		
11.	Specific Learning Disability			
12.	Autism Spectrum Disability			
13.	Mental-illness	X		
14.	Chronic Neurological conditions			
15.	Multiple sclerosis			
16.	Parkinson's disease			
17.	Haemophilia			
18.	Thalassemia			
19.	Sickle Cell disease			

(Please strike out the disabilities which are not applicable)

2. The above condition is progressive/non-progressive/likely to improve/not likely to improve.

3. Reassessment of disability is:

(i) not necessary.

Or

(ii) is recommended/after _____ years _____ months, and therefore, this certificate shall be valid till (DD / MM /YY) _____

@ - 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 Document **Date 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 _____

To

(Name and address of applicant
For Certificate of Disability)

Sub: Rejection of Application for Certificate of Disability

Sir/Madam,

Please refer to your application dated _____ for issue of a Certificate of Disability for the following disability:

2. Pursuant to the above application, you have been examined by the undersigned / Medical Authority on _____, and I regret to inform that, for the reasons mentioned below, it is not possible to issue a Certificate of Disability in your favour:-

- (i)
- (ii)
- (iii)

3. In case you are aggrieved by the rejection of your application, you may represent to _____, requesting for review of this decision.

Yours faithfully,

(Authorized Signatory of the notified Medical Authority)
(Name and Seal)

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

This is to certify that Ms. / Mr. _____ (Name of the student), Date of Birth: _____ C.R./OPD No. _____ D/o / S/o _____ (complete address), is a diagnosed case of _____ (Cancer / Thalassemia / AIDS)*. She/he is undergoing treatment for the same under my care.

(Signature of the Patient)

Attested

(Signature of the Physician)

Name and address of the Physician _____

Stamp of the Physician

* 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.

1. 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 the 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 photocopy of Gradation Certificate issued by concerned State Sports Department and Sports Certificates.

b) Self attested photocopies of Class 10th and Class 10+2 and Bachelor's Detailed Marks Certificate.

c) Undertaking of sports achievements (Annexure-I) and attendance in sports grounds (Annexure-II).

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

(iii) the candidate qualifies in the Sports trials in the concerned game. It is essential to qualify Skill & Game Performance Test to be eligible for verification of original sports certificates for awarding marks. The sports merit will be prepared as per Criteria given in Annexure IV

iv) No document will be accepted after the last date of submission of Admission Form by the Campus Sports Department. However, in case any sportsperson achieves any achievement up to **June 30, 2024** 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 is essential for the candidates seeking admission under this category within the prescribed period of four years i.e. from **1st July, 2020 to 30th June, 2024**.

1. Means a person attending the grounds regularly so as to appear himself/herself 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 2020 to 30th June 2024**.

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 in those sports disciplines which are considered for the calculation of marks awarded to each University for the purpose of awarding MAKATrophy and recognized by competent authority of the respective game as mentioned in clause 12.

(vi) The games for which Panjab University seeks its claim for award of points for MAKA Trophy (Maulana Abul Kalam Azad Trophy) to be awarded by Association of Indian Universities for the preceding year of the admission year will be considered as eligible sports disciplines for admission under reserved category of sports.

4. 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 Skill & Game Performance Test and verifying the original Merit/Participation Sports Certificates of the applicants as per criteria mention in Annexure IV. 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.
5. 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% 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.
6. The order of precedence in the selection of candidate for admission will be as per achievement of candidate.
 - i). Applicant securing higher achievement in sports will be 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 concerned department in which applicant applied for admission.
7. 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.
8. 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.
9. 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.
10. 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 tournaments and all those tournaments for which gradation is being done.
11. 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.

12. If any State of India does not have its gradation policy then gradation of the sports certificate of the students of the concerned state will be done as per Annexure IV. If any game/tournament which is not graded by the concerned state the certificates of the same game/sport will be

graded as per Annexure IV, In such cases if 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 affiliated with Indian Olympic Association 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 affiliated with Indian Olympic Association and the recognized National Federation of the concerned game must be recognised and affiliated with 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 Federations 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.

13. Certificate on Letter head will not be considered in normal course. 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.
14. The clause 3 (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.
15. The admission of students under reserved category of sports will be provisional until the verification of sports certificates from the concerned issuing authority.
16. Second Round of Sports Trials will be conducted on the request of particular department for the candidates who could not appear in the First Round of Sports Trials due to specific reason, if the seats remain vacant in the concerned department.

UNDERTAKING FOR ACHIEVEMENTS IN SPORTS

I, _____ (name), son/daughter of Shri _____ (father's name), born on _____ of _____ (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	Grade
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)

UNDERTAKING FOR ATTENDANCE IN SPORTS GROUND

I, _____ 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. of _____ is 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)

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	No Change
2.	Game Performance in Trials	No Change

Note: - It is essential to qualify the Skill & Game Performance Test for Verification of Original Gradation and Sports Certificates

(Marks Allocation Criteria)
Maximum 100 Marks for Merit/ Participation Sports Certificates
Maximum 100 Marks for Merit/Participation Sports Certificate as per the criteria in Annexure- (IV) . Only the Highest Merit/Participation Sports Certificate will be considered for Marking.

GRADATION CRITERIA

Marks will be allocated to the gradation certificate of the Candidate issued by the concerned state sports department as per the following criteria. If any State of India does not have its gradation policy then gradation of the sports certificate of the students of the concerned state will be done as per the following criteria (Annexure IV). If any game/tournament is not graded by the concerned state the certificates of the same game/sport will be graded as per following criteria (Annexure IV). Maximum 100 Marks for Merit/Participation Sports Certificate as per the following criteria. Only the Highest Merit/Participation Sports Certificate will be considered for Marking. Sports participation in the same game in two different competitions is essential for the candidates seeking admission under this category within the prescribed period of four years i.e. from 1st July, 2020 to 30th June, 2024.

Marks Allocation Criteria				
GRADE- A Sportspersons of International standing i.e. those who have represented India in the following International Tournaments/Meets/Championships/Competitions etc:-	Gold Medal	Silver Medal	Bronze Medal	Participation
1. Olympic Games	100	97	95	91
2. Asian Games.	97	95	93	89
3. Commonwealth Games.	95	93	91	87
4. World Cups/ International Championships, organized by the International Federation of concerned sport	93	91	89	85
GRADE-B Sportspersons who have participated in the following International Tournaments /Meets/ Championships /Competitions :	Gold Medal	Silver Medal	Bronze Medal	Participation
1. World Universities Games/World School Games/ International Tournaments/International Games organized by International Federation of concerned Sports, other than those mentioned under Grade 'A'	91	89	87	83
2. Asian Tournaments/ Championships conducted by OCA (Olympic Council of Asia)/Asian Federation of concerned sport under the aegis of International Federation of concerned sports/SAF Games/ ASEAN School Games organized by ASSC (ASEAN Schools Sports Council)	89	87	85	81
3. First three positions in National Championship for Seniors/Youth/Juniors, organized by the National Sports Federation of concerned sport.	87	85	83	x
4. First three positions in All India Inter-Varsity tournaments organized by the Association of Indian Universities (AIU)	85	83	81	x
5. Participation in International Meets/Championships for Youth/Juniors conducted by the concerned International Sports Federation of concerned sport.	x	x	x	79

6.First three positions achieved by students representing State/U.T., KVS (Kendriya Vidyalaya Sansthan), NVS (Navodaya Vidyalaya Smiti), CBSE , IPSC(Indian Public Schools' Conference) and DAV (DAV Managing committee) in the National School Games organised by School Games Federation of India (SGFI)	75	73	71	x
7. First three positions in the National Games/ Khelo India Games organized by Ministry of Youth Affairs & Sports , Govt. of India	73	71	69	x
8.First three positions in National Zonal University tournaments organized by the Association of Indian Universities (AIU)	71	69	67	x
GRADE-C	Gold Medal	Silver Medal	Bronze Medal	Participation
1.Participation in Senior Nationals/Inter-Universities Tournaments, organized by National Sports Federation of concerned sport/ AIU	x	x	x	65
2.Participation in Junior National Championship/National School Games organized by National Federation of concerned sport/SGFI	x	x	x	63
3.First three positions in the recognized State Championships for Seniors, organized by concerned state Sport Association of concerned sport/Organized by State/U.T., sports department /Education department.	61	59	57	x
4. First three positions in the Panjab University Inter College Tournaments (A-Division).	59	57	55	x
5. First three positions in the recognized State Championships for Juniors organized by concerned state sports association of concerned sport/Organized by State/U.T., sports department /Education department.	57	55	53	x
6.First three positions in National/Inter-Zonal tournament of KVS/NVS/CBSE/DAV affiliated units of SGFI at par with State units of SGFI	55	53	51	x
GRADE -D	Gold Medal	Silver Medal	Bronze Medal	Participation
1.Participation in Senior National Championships/National Games without achieving any of the first three positions in the State Championships.	x	x	x	53
2. Participation in Junior National Championships without achieving any of the first three positions in the State Championships.	x	x	x	51
3. Participation in National School Games without achieving any of the first three positions in Inter School Championship or nationals/Inter-zonal of KVS/NVS/CBSE/IPSC/DAV.	x	x	x	49

4. Participants in the All-India Inter-University games without achieving any of the first three positions in the Panjab University Inter-College Championships.	x	x	x	45
5. P.U., Campus Championships and tournaments other than mentioned in Grade-C	43	41	39	37
6. Any other recognised tournament other than mentioned in GRADES- A,B,C & D by the recognised sports bodies as mentioned above (Subject to the Clause 12)	41	39	37	35

GENERAL RULES

1. 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-2024 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-2024 / decisions of Senate/ Syndicate, on the other, the latter shall prevail.
2. The Entrance Test will be held at **CHANDIGARH, REGIONAL CENTRES at HOSHIARPUR, LUDHIANA AND MUKTSAR** on the scheduled dates.
3. A candidate desirous of taking the Entrance Test should submit his / her through online payment mode latest by 24-05-2024 (Friday).
4. **Last date for uploading of photograph, signature with rest of the information on the website is 30-05-2024 (Thursday).**
5. In no case, the fee for the PU-CET (P.G.) 2024, 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.
9. 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 of the 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 ¼mark 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, their 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.in> 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**.
24. 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.***
 35. **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.) 2024 will be available at <http://results.puchd.ac.in>.**
 37. **On 28-06-2024 (Friday) 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. 30-06-2024 (Sunday) through e-mail 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)-2024 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 07-06-2024 (Friday). 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 18001802065
 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.
- e) 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-2024.

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 along with 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.
47. For detailed Instructions related to admission, refer to Handbook of Information 2024, **likely to be available in the month of June, 2024** at Panjab University website (<http://admissions.puchd.ac.in>).

INSTRUCTIONS FOR GIVING ANSWERS ON OMR ANSWER SHEET

- 1 All questions are to be attempted on the answer sheet as per instructions printed on the question booklet and OMR Answer Sheet.
- 2 **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.**

- 3 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 D

The Answer marked as under shall be considered as wrong:

or A B C D *or* A B C D *or* A B C D *or* A B C D *or* A B C D

- 4 For marking answers use **Black Gel Pen only to darken the corresponding circles.**
- 5 *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.*
- 6 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.
8. **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 $\frac{1}{4}$ 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 - $\frac{1}{4}$ 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
 - Shankari Prasad v. Union of India, AIR 1951 SC 458
 - Golaknath v. State of Punjab, AIR 1967 SC 1643
 - 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.
 - When he is advised by the Union Council of Ministers.
 - When he receives a report from the Chief Election Commission.
- The President of India, in the matters of appointment of Judges of a High Court :
 - Is not obliged to consult any Judge of Supreme Court or High Court.
 - Is bound by the advice of the Governor of a State
 - 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
 - 86th Amendment
 - 100th Amendment
 - 87th Amendment
 - 94th Amendment
- 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.
- How many amendments have been carried out in constitution of India?
 - 109
 - 106
 - 99
 - 94
- Constitution 103rd Amendment has amended which articles of the Constitution?
 - 14 & 15
 - 15 & 16
 - 14 & 16
 - 14, 15 & 16
- 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?
 - 302
 - 303
 - 304
 - 309
- The newly elected President of USA Barack Obama belongs to which political party.
 - Republican
 - Democratic.
 - Communist
 - None of the above
- Since August 1994, the rupee has been made fully convertible in :
 - The capital account
 - The capital and saving account
 - The saving account
 - The current account

Part– II: Substantive Law

Commercial Law (Law of Contract and Company Law)

- A contract entered into without 'Free Consent' is :
 - Void
 - Voidable
 - Valid
 - Illegal
- Property insurance is a contract of :
 - Indemnity
 - Contingent contract
 - Wagering agreement
 - Guarantee
- Creditor, on default by the principal debtor, can file suit against:
 - Secured property
 - Principal debtor alone
 - Surety and principal debtor;
 - All the above jointly.
- A company is a Government Company only if :
 - All the shares of the company are held by Central or State Government;
 - At least 25% of Shares are held by Central or State Government;
 - Majority of Shares are held by Central or State Government or both;
 - 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;
 - Of not more than twelve month;
 - Of not more than twenty four months;
 - Of not more than fifteen months;
 - Any time but less than twenty four months

Family Law

- Which of the following is valid marriage under the Hindu Marriage Act. 1955?
 - 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
 - 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
 - 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?
 - H, a male Hindu aged 26 adopts a daughter aged 6
 - H, a male Hindu and his wife adopt a son aged 16
 - H, a male Hindu aged 40 adopted a son aged 5, after his natural born son migrated to the U.S.A.
 - H, a Hindu bachelor aged 25 adopts a son aged 3
- Which of the following is Hindu under the Hindu Law?
 - A is born of Hindu father and Christian mother and brought up as a Christian
 - A is born of Hindu father and Buddhist mother
 - A is born of Muslim father and Parsi mother'
 - A is born of Christian father and Muslim mother
- Which of the following relatives will succeed to the Property of H, a Hindu male under the Hindu Succession Act 1956 after his death?
 - Daughter
 - Father
 - Brother
 - Sister
- Which of the following is SAHI NIKAH (valid marriage) under the Mohammedan Law?
 - M, a Mohammedan male aged 30 married W, a Muslim woman under-going Iddat
 - 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

- The defense of *Volenti non fit injuria* is available in :
 - Rescue cases
 - Help cases
 - Negligence cases
- Malice/evil motive is relevant in :
 - Negligence
 - Defamation
 - Vicarious Liability
 - 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
 - D) None of these

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

Legal Theory

1. Who observed that International Law is the vanishing point of jurisprudence?
 - A) Austin
 - B) Salmond
 - C) Starke
 - D) Holland
2. 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
 - C) 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
4. According to Hohfeld, 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
5. Possession is said to be ownership on the defensive by :
 - A) Savigny
 - B) Salmond
 - C) Ihering
 - D) Gray

Public International Law

1. '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
2. '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
3. 'A State is, and becomes an international person, through recognition only and exclusively':
 - A) Oppenheim
 - B) Anzilotti
 - C) Holland
 - D) Pitt Corbett
4. "The rebus sic stantibus doctrine is one of the enigmas of International Law" who said
 - A) Starke
 - B) Edward Collin
 - C) Oppenheim
 - D) Anzilotti.
5. '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

1. 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.
3. 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:
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
4. 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
5. 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

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
2. 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
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
5. 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 :
A) 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
3. 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
B) 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
3. 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
4. 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
5. If the word MANMOHANWASHERE corresponds to ZOAABVNBJOFRFR, 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
7. The remainder obtained on dividing 2^{1680} 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. Write about 150 words each on any two of the following: (16 Marks)
 - a) American Presidential elections
 - b) Budget 2008-09
 - c) Patriotism in Indian Cinema
 - d) Beijing Olympics 2008

2. Write about 150 words each on any two of the below listed personalities: (16 Marks)
 - A) Dr. Manmohan Singh
 - B) Young Turks in Indian Politics
 - C) Your role model
 - D) Sachin Tendulkar

3. Exhibit your analytic capabilities by arguing both for and against any one of the below listed motions in 100 words each:- (13 Marks)
 - a. Covid 19: How India fared in fighting corona virus compared to developed countries.
 - b. Online education, work from home: Have we arrived in virtual world.

4. **CURRENT AFFAIRS:** (10 Marks)

Choose one option to answer the questions:

 1. Who among the following was chosen by the TIME magazine as the 'Person of the Year 2019'?
 - A) Greta Thunberg
 - B) Rahul Gandhi
 - C) Narendra Modi
 - D) Donald Trump
 2. Which among the following countries has introduced VISA exemption for foreigners seeking medical treatment?
 - A) Pakistan
 - B) UK
 - C) India
 - D) China
 3. The Union Territory of Jammu & Kashmir has constituted an administrative council to fulfill all the government functions. Who will Chair the Council?
 - A) GC Murmu
 - B) R K Mathur
 - C) Amit Shah
 - D) Rajnath Singh
 4. Google has launched a new cloud-based game streaming service. What is the name of the game service?
 - A) Google Arcadia
 - B) Google Stadia
 - C) Google Playmates
 - D) Google Nixplay
 5. Which Bangladeshi cricketer has been banned from the sport for five years?
 - A) Soumya Sarkar
 - B) Mushfiqur Rahim
 - C) Shahadat Hossain
 - D) Liton Das
 6. Who announced that the NRC process will be carried out across India and over all citizens?
 - A) P M Narendra Modi
 - B) Defence Minister Rajnath Singh
 - C) President Ram Nath Kovind
 - D) Home Minister Amit Shah
 7. Germany will achieve its climate goals by which year, as per the recently passed Climate Protection Act?
 - A) 2025
 - B) 2030
 - C) 2035
 - D) 2040
 8. What was India's rank in the recently concluded World Para Athletics Championship?
 - A) 9th
 - B) 13th
 - C) 24th
 - D) 36th
 9. What is the percentage of growth in road accidents mentioned in 'Road Accidents in India-
 - A) 0.46 percent
 - B) 0.50 percent
 - C) 0.64 percent
 - D) 2.50 percent
 10. President' Colour was recently awarded to which institution on November 20?
 - A) Indian Naval Academy
 - B) Indian Air Force
 - C) Indian Army
 - D) All of the above

5. **GENERAL KNOWLEDGE** (10 marks)

Choose one option per question to answer the following Multiple Choice Question:

 1. Which was Rishi Kapoor's first film as a lead actor?
 - A) Mera Naam Joker.
 - B) Bobby
 - C) Karz
 - D) Amar, Akbar Anthony
 2. The Ashes is associated with the game of
 - A) Football
 - B) Volley Ball
 - C) Cricket
 - D) Hockey

3. Headquarters of United Nations are situated at
A) New York B) Geneva
C) Vienna D) Paris
4. Who has never been the President of India?
A) Zakir Hussain B) Pratibha Patil
C) Sardar Vallabhbhai Patel D) V. V. Giri
5. Former PM Manmohan Singh has an academic background in
A) History B) Political Science
C) Geography D) Economics
6. Who was the first Indian to walk on the moon?
A) Kalpana Chawla B) Ravish Malhotra
B) Raja Chair D) Rakesh Sharma
7. World Environment Day is celebrated annually on which date?
A) May 01 B) June 05
C) August 14 D) January 01
8. The Ukrainian President, Volodymyr Zelenskyy's former career was in which field?
A) Medicine
B) Acting
C) Engineering
D) Defence
9. Terms such as 'Hydra', Alphabay', RAMP, pertain to which of the following?
A) Dark Web B) Navy
C) Astronomy D) Economics
10. World Press Freedom Day is celebrated 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?
A. Thermal Power Plants
B. Automobiles
C. Refrigeration and Air – conditioning
D. Fertilizers
- Q2) Among cereals and millets richest source of calcium is:
A. Rice
B. Bajra
C. Maize
D. Ragi
- Q3) Bissinosis is common in:
A. Farmers
B. Textile Industry
C. Gold mine
D. Cement factory
- Q4) The most populous state in India is:
A. Uttar Pradesh
B. Bihar
C. Madhya Pradesh
D. Kerala
- Q5) A doctor suggested to a couple not to have more than one child because of
A. Rh+ male Rh- female
B. Rh- male Rh+ female
C. Rh+ male Rh+ female
D. Rh- male Rh- female
- Q 6) Acquired immunity is found in
A. Invertebrates
B. Vertebrates
C. Some Invertebrates
D. Both vertebrates and invertebrates
- Q 7) The incubation period of rabies ranges from –
A. 1 to 2 days
B. 3 to 4 days
C. 5 to 6 days
D. 10 days to 1 Year
- Q 8) At birth immunization required is
A. BCG and OPV-O
B. DPT-1
C. DPT-1 and OPV-1
D. Measles
- Q9) Anthracosis is caused due to
A. Coal Dust
B. Silica
C. Fe
D. Tobacco
- Q 10) Gini Index is associated with
A. Distribution of diseases
B. Distribution of Income
C. Distribution of deaths
D. Distribution of pollutants

SAMPLE QUESTIONS 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 among 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. Stream-of-consciousness ad Technique in modern fiction
4. Pre-Raphaelite poetry
5. Literary sublime.

(15 marks)

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

1. 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
2. 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
5. 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
7. 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
8. 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
10. 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 is non-polluting fuel
 - C) CNG is easily available

- D) CNG is a non renewable resource
3. Which of the following is caused due to water contamination?
 - A) Oral Cancer
 - B) Hypertension
 - C) Gastroenteritis
 - D) Tuberculosis
 4. Which of the following is a conventional source of energy?
 - A) Solar Energy
 - B) Thermal Energy
 - C) Tidal Energy
 - D) Wind Energy
 5. Which of the following is a primary activity?
 - A) Teaching
 - B) Retail trade
 - C) Mining
 - D) Tailoring
 6. 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)
 7. 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
 - C) White Planet
 - D) Yellow Planet
 8. Which of the following is eco-friendly way of managing kitchen waste?
 - A) Open dumping
 - B) Land filling
 - C) Burning
 - D) Vermi Composting
 9. Indian Cheetah and Dodo bird are:
 - A) Vulnerable species
 - 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
 - C) 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 = $\frac{\text{distance on the map}}{\text{distance on the ground}}$
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
2. 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
5. 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 $MRTS_{LK}$
 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) $r_{xy} = \frac{\sigma_{xy}}{\sigma_x^2 \times \sigma_y^2}$

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

1. 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
5. "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
7. 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

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

Part A: Verbal ability/Reasoning

- Disease: Health:: Freedom : ?
 A) Slavery
 B) Pleasure
 C) Plight
 D) Beauty
- 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
- 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
- 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
- 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
- What is the total number of unemployed Graduates?
 A) 425
 B) 475
 C) 550
 D) 600
- 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 B) 3
 C) 5 D) Their Number
- Which of the following is Business Averages?
 A) Moving average
 B) Progressive average
 C) Composite Average
 D) All of these

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

Sample Questions for M.Com. (Honours)

1. Which of the following presents key aspects of the process of accounting in the correct chronological order?
 - A) Communicating, recording and identifying
 - B) Recording, identifying and communicating
 - C) Recording, totaling and identifying
 - D) Identifying, recording and communicating
2. Which of the following is not a function of controller?
 - A) Financial reporting
 - B) Managerial reporting
 - C) Money management
 - D) Cost management
- Ending finished goods inventory is:
 3. A) Beginning finished goods inventory + cost of goods completed – cost of goods sold
 - B) Cost of goods completed – cost of goods sold
 - C) Beginning finished goods inventory + cost of goods completed
 - D) Beginning finished goods inventory - cost of goods completed + cost of goods sold
- Which of the following is also known as an inventoriable cost?
 4. A) Period cost
 - B) Fixed cost
 - C) Product cost
 - D) Conversion cost
- A cost management tool that brings in its focus the activities performed to produce a product is called
 5. A) target costing
 - B) life cycle costing
 - C) ABC
 - D) benchmarking
- The first Factories Act was enacted in
 6. A) 1881
 - B) 1895
 - C) 1897
 - D) 1885
- If the date of incorporation of a company is 1/01/2005, the first AGM must be held before
 7. A) 30/06/2006
 - B) 31/03/2006
 - C) 31/12/2005
 - D) 31/03/2005
- The 'right to information' under the RTI Act, 2005 includes the right to
 8. A) Inspect works, documents, records
 - B) Take notes, extracts or certified copies of documents or records
 - C) 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
 9. A) 36 months
 - B) 24 months
 - C) 12 months
 - D) 60 months
- When an oligopolist individually chooses its level of production to maximize its profits, it charges a price that is
 12. A) 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
 - C) more than the price charges by a monopoly and less than the price charges by a competitive market
 - D) less than the price charges by a monopoly and more than the price charges by a competitive market
- 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
 13. A) Essentially have no effect on the level of national income
 - B) Have a contractionary effect on national income
 - C) Decrease the marginal propensity to save out of each extra pound of income
 - D) Have an expansionary effect on national income.
- The Government of India has decided to cover all districts of the country in National Rural Employment Guarantee Programme (NREGP)
 14. A) up to January 1, 2008
 - B) up to March 31, 2008
 - C) with effect from April 1, 2008
 - D) with effect from April 1, 2009
- Reserve Bank of India calculates four components of money supply, M1, M2, M3, M4. Which one of the following statement is not correct?
 15. A) $M1 = \text{currency with public} + \text{demand deposits with banks}$
 - B) $M2 = M1 + \text{post office savings deposit}$
 - C) $M3 = M1 + M2$
 - D) $M4 = M3 + \text{total post office deposits}$
- What is meant by the term functional management?
 16. A) A system of business organization that is based on an individual having a wide range of skills needed to administer a business
 - B) A type of management that is based more on personality
 - C) A system that groups together various jobs and is organized by departments, sections, or functions
 - D) A system that supports a flat form of command chain
- Maslow, in his triangle of human needs, showed that
 17. A) Having challenging new tasks is a basic human need
 - B) Money always motivates workers
 - C) Safety and security is a low order human need
 - D) Self-actualization is a high order human need

- A) 36 months
B) 12 months
C) 24 months
D) 30 months
- The definition of 'Goods' under the Central Sales Tax Act, 1956 does not include
10. A) Newspapers
B) Standing crops
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
- D) Workers will not give of their best unless they have good social events provided by the firm
18. The purpose of the Malcolm Baldrige National Quality Award is to
- A) Stimulate efforts to improve quality
B) Recognize quality achievements of companies
C) Publicize successful quality programs
D) All of the above
19. 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
D) Strategy, synergy, shared value, standardization, skills staff and structure

Sample Questions for M.Com (Business Innovations)

- 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
- Q 10) 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

Q6) Botany: Plants::Entomology:? –

- A) Birds
- B) Plants
- C) Insects
- D) Snakes

A)

A)

Sample Questions for M.B.A. for Executives (MBAfEX)

Component 1: General Knowledge

1. 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

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
2. Which was the first Capital of Pakistan?
 - A) Karachi
 - B) Lahore
 - C) Islamabad
 - D) Peshawar
 3. Which Olympic did Mikha Singh break the world record in the 400 meters event?
 - A) Rome
 - B) Athens
 - C) Beijing
 - D) None of the above
 4. Kuchipudi is a dance form of
 - A) Tamil Nadu
 - B) Orissa
 - C) Kerala
 - D) None of the above

Component II: Economic and Business Environment Awareness

1. A mixed economy is necessarily a _____ economy.
 - A) Controlled
 - B) Planned
 - C) Organised
 - D) None of the above
2. Which of the following internal factors influence the strategy and other decisions of the business?
 - A) Value System
 - B) Mission and objective
 - C) Management structure and nature
 - D) None of the above
3. Environment is synonymous with _____
 - A) Task
 - B) Relations
 - C) People
 - D) Situational variables
4. Which is the full form of NTC?
 - A) National Thermal Corporation
 - B) National Textile Corporation
 - C) Non-Textile Corporation
 - D) None of the above
5. In which sector Indian Economy is growing at faster rate in 21st century (after 2000) _____
 - A) Service
 - B) Agriculture
 - C) Manufacturing
 - D) Public

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%

- On the basis of above Table, what is the difference between the number of unemployed men and women doctors?
 - 20
 - 30
 - 40
 - None of the above
- What is the total number of unemployed Graduates?
 - 425
 - 475
 - 550
 - 600
- What is the total number of Engineers?
 - 300
 - 350
 - 360
 - 400
- In which category, unemployed men are more in percentage than unemployed women
 - Doctors
 - Engineers
 - Post Graduates
 - Graduates

Component IV: Numerical Ability

- How many pillars are needed to construct a bridge of 300 meters long, if pillars are at a distance of $12\frac{1}{2}$ meters each?
 - 22
 - 24
 - 25
 - None of the above
- If $5 \times 8 = 28$, $3 \times 7 = 12$, $8 \times 6 = 35$, then find the value of $13 \times 13 = ?$
 - 169
 - 130
 - 140
 - 144
- The ratio of boys and girls in a is 3:2. 20% of boys and 25% of girls are scholarship holders. The percentage of students who are scholarship holders are:
 - 45
 - 53
 - 60
 - 22
- In a class M is 9th from the top, S is 8th from the bottom and R is exactly in between them. If there are three children between M and R, find out the total students
 - 24
 - 25
 - 23
 - 27
- 3, 5, 9, 17, 13, _____
 - 44
 - 65
 - 64
 - 49

Component V: Verbal Ability and Reasoning

- Disease : Health :: Freedom : ?
 - Slavery
 - Pleasure
 - 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
 - C) 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 by:
 - 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?
 - A) Basketball
 - B) Volleyball
 - C) Hockey
 - D) Table Tennis
4. 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
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
10. YMCA College of Physical Education (Madras) was established in:
 - A) 1956
 - B) 1920
 - C) 1931
 - D) 1932

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?
 - A) Teacher
 - B) His Parents
 - C) His environment
 - D) His own conscious mind
3. The first Modern Olympic games were held in the Year:
 - A) 1892
 - B) 1896
 - C) 1900
 - D) 1904
4. Find the odd personality:
 - A) Baichung Bhutia
 - B) Kapil Dev
 - C) Pete Sampras
 - 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. Which one of the following is different from the rest of the three?
 - A) Footbal
 - B) Basketball
 - C) Cricket
 - D) Tennis
7. The name of 'Tiger Woods' is associated with:
 - A) Boxing
 - B) B) Tennis
 - C) Football
 - D) Golf
8. Thomas Cup' is associated with:
 - A) Badminton (women)
 - B) Badminton (men)
 - C) Table Tennis (women)
 - D) Table Tennis (men)
9. Most import ant component of level of living is?
 - A) Health
 - B) Occupation
 - C) Education
 - D) 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

- B) Yogesh
- C) Karim
- D) Manu

Sample Questions for M.Sc. Biochemistry

1. In mammals nor-epinephrine is synthesized from:
 - A) Pyruvate
 - B) Arginine
 - C) Catechol
 - D) Tyrosine
2. Hyperglycemic agent secreted by the pancreas is:
 - A) Insulin
 - B) Lipase
 - C) Glucagon
 - D) FSH
3. Feeding of raw egg may result in the deficiency of:
 - A) Vitamin A
 - B) Choline
 - C) Biotin
 - D) Riboflavin
4. What role RNA plays in the replication of DNA:
 - A) It acts as template
 - B) It acts as primer
 - C) It acts as cofactor
 - D) 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
 - C) Hydrophobic Interactions
 - 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
8. Which of the following amino acid does not form peptide bond:
 - A) Cysteine
 - B) Proline
 - C) Lysine
 - D) Glycine
9. Lysozyme is an enzyme which:
 - A) Hydrolyses bacterial cell wall
 - B) Is made up of RNA
 - C) Contains phospholipids
 - D) Breaks lipoproteins
10. Formation of uric acid from purines is catalysed by:
 - A) Urease
 - B) Uricase
 - C) Xanthine oxidase
 - D) Adenosine deaminase

Sample Questions M.Tech Instrumentation

1. If an atom loses one or more electrons it becomes
 - a) Electrically neutral
 - b) Electrically positive
 - c) Electrical activist
 - d) A neutral ion
2. The superposition theorem is applicable to
 - a) Voltage
 - b) Current
 - c) Both voltage and current
 - d) Voltage Current and Power
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. Transformers are rated
 - a) kW
 - b) kV
 - c) kWh
 - d) kVA
5. A Step function is applied to the input of a system and output is of the form $y=t$, the system is
 - a) Stable
 - b) Unstable
 - c) Not necessarily stable
 - d) Conditionally stable
6. How many 7490 ICs are to be cascaded to count up to 999?
 - a) 01
 - b) 02
 - c) 03
 - d) 04

Sample Questions for M.Sc. Biophysics

- If A & B are vectors, then
 - Vector A and B are perpendicular to each other.
 - Vector A and B are necessarily parallel.
 - Vector A and B must be antiparallel.
 - Vector A and B may be parallel or antiparallel.
- The minimum charge on a body can be:
 - one coulomb
 - one stat coulomb
 - 1.6×10^{-19} coulomb
 - 3.2×10^{-19} coulomb
- The potential due to an electric dipole varies
 - inversely as the distance
 - directly as the distance
 - inversely as the square of distance
 - directly as the square of distance
- Which of these techniques does not give information about the dimensions of DNA molecule?
 - Viscosity measurement
 - light scattering
 - flow-birefringence
 - Atomic Absorption spectroscopy
- Fluorescence of a protein can be due to
 - tryptophan
 - tyrosine
 - phenylalanine
 - all the above
- The aromatic amino acids are important because:
 - they are ionized by light of wavelength 280nm.
 - they are actually imino acids that cannot rotate through the angle phi.
 - they give proteins their absorbance at 280 nm
 - they are source of disulfide bonds within the exported proteins
- The Henderson-Hasselbalch equation states that:
 - $P^k = P^H + \log R$
 - $P^H = Pk + \log R$
 - $P^H = pk - \log R$
 - $R = p^k - p^H$
- The proteins that run the fastest in SDS-PAGE are
 - Large
 - Small
 - Negatively charged
 - Positively charged
- The conditions $a \neq b \neq c$, $\alpha = \gamma = 90^\circ$ $\beta \neq 90^\circ$ describe theUnit cell
 - tetragonal
 - orthorhombic
 - monoclinic
 - trigonal
- The electromagnetic radiation with longest wavelength. is:
 - Visible Light
 - Radiowaves
 - Microwaves
 - IR
- Mass spectrometry is an analytical technique for the identification of molecules by way of measuring their:
 - mass only
 - charge only
 - mass to charge ratio
 - charge to mass ratio
- Micro array analysis is used for
 - quantization of gene expression
 - to check the quality of gene expression
 - for measuring the copy number
 - to identify new genes
- Component of atom involved in study of structure with X-ray crystallography
 - Nucleus
 - Electron
 - proton
 - Neutrons
- The radius of an atom is approximately
 - 10^{-10} m
 - 10^{-12} m
 - 10^{-13} m
 - 10^{-16} m
- Rays similar to x-rays but of smaller wavelength that are given off by radioactive Substances are
 - alpha rays
 - beta rays
 - gamma rays
 - cosmic rays
- Antiparticle of electron is
 - proton
 - Antiproton
 - Positron
 - Neutron
- Atomic force microscope was invented in which Year:
 - 1972
 - 1986
 - 2001
 - 1980
- Nucleic acid absorption (A_{260}) changes in different states. It is maximum when it is:
 - Double stranded
 - Single stranded
 - All nucleotides are separated
 - Fragmented
- Which out of these is not a connective tissue:
 - Cartilage
 - bone
 - muscle
 - blood
- Which of these is not a characteristic of the Cardiac muscle:
 - nonstriated
 - Presence of intercalated disc
 - Involuntary
 - Presence of actin and myosin filaments.
- Fertilization occurs in which region of female reproductive part:
 - Infundibulum
 - ampulla
 - Isthmus
 - Uterus

11. Of the following which has got the highest frequency?
 A) ultraviolet rays
 B) gamma rays
 C) radio waves
 D) infrared waves
12. The value of atomic mass unit is:
 A) 1.66×10^{-27} Kg
 B) 1.66×10^{-28} Kg
 C) 1.66×10^{-29} Kg
 D) 1.66×10^{-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:
 A) Spermatogonia
 B) Reticulocytes
 C) Amebocytes
 D) Neutrophils
15. During generation of action potential, depolarization is due to
 A) K^+ -efflux
 B) Na^+ -efflux
 C) K^+ -influx
 D) Na^+ -influx
16. Which of the following wave is likely to be absent in ECG
 A) P
 B) T
 C) Q
 D) R
17. Indirect immnuofluorescene involves fluorescently labeled
 A) Immunoglobulin-specific antibodies
 B) Antigen-specific antibodies
 C) Hapten – specific antibodies
 D) Carrier – specific antibodies
18. Prostaglandins are
 A) C20 unsaturated fatty acids
 B) C27 saturated alcohols
 C) C20 saturated fatty acids
 D) C27 unsaturated alcohols
19. Apart from the proton which other nuclei of the following is used for NMR.
 A) ^{13}C
 B) ^{12}C
 C) ^{16}O
 D) ^{32}P
31. Brunner glands are present in:
 A) Colon
 B) jejunum
 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?
 A) Pituitary
 B) Thalamus
 C) Hypothalamus
 D) Hippocampus
33. A Ramachandran plot show:-
 A) The angles that are allowed between the bonds connecting the amide nitrogen in a peptide bond
 B) The sterically limited rotational angles where phi and psii are allowed in the protein backbone.
 C) The amino acid residues that have the greatest degrees of rotational freedom
 D) The sterically allowed rotational angles between the side chain groups in a peptide backbone.
34. The most sensitive for the lethal effects of radiation is
 A) Preimplantation
 B) Early organogenesis
 C) Late organogenesis
 D) The fetal period
35. Which of the following is the primary factor regulating normal coronary blood flow
 A) Aortic diastolic pressure
 B) Coronary perfusion pressure
 C) Systolic wall pressure
 D) Myocardial oxygen consumption
36. The term satellite DNA refers to
 A) extrachromosomal DNA fragments that are found closed to (orbiting) the full length chromosomes
 B) Mitochondrial DNA, which is circular in nature
 C) Long tandem repeats of simple DNA sequences
 D) 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
 A) Charge number
 B) Atomic packing factor
 C) Coordination number
 D) Lattice
38. EPR spectrum is due to
 A) Change in mass state of an electron
 B) Change in L-K transition of an electron
 C) Change in spin state of an electron
 D) Change in both L-K transition 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 $1 - i$

- A) is both irreducible as well as prime
- B) is neither irreducible nor prime
- C) is irreducible but not prime
- D) 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

A) $(x - a) \frac{\partial f}{\partial y}(a, b) + (y - b) \frac{\partial f}{\partial x}(a, b) = 0$

B) $(x - a) \frac{\partial f}{\partial y}(a, b) - (y - b) \frac{\partial f}{\partial x}(a, b) = 0$

C) $(y - b) \frac{\partial f}{\partial y}(a, b) + (x - a) \frac{\partial f}{\partial x}(a, b) = 0$

D) $(x - a) \frac{\partial f}{\partial x}(a, b) - (y - b) \frac{\partial f}{\partial y}(a, b) = 0$

4. Two spheres

$$x^2 + y^2 + z^2 + 2u_1x + 2v_1y + 2w_1z + d_1 = 0$$

$$x^2 + y^2 + z^2 + 2u_2x + 2v_2y + 2w_2z + d_2 = 0$$

cut each other orthogonally if

A) $2u_1u_2 + 2v_1v_2 + 2w_1w_2 = d_1 + d_2$

B) $u_1u_2 + v_1v_2 + w_1w_2 = 0$

C) $\frac{u_1}{u_2} = \frac{v_1}{v_2} = \frac{w_1}{w_2} = \frac{d_1}{d_2}$

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 $p > 1$
- C) divergent if $p > 1$
- D) convergent if $0 < p < 1$

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

given by

(A) e^{y^2}

(B) e^{x^2}

(C) e^x

(D) e^y

7. If $\phi(x, y, z) = 3x^2y - y^3z^2$, 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

$$x^3 - 13x^2 + 15x + 189 = 0$$

exceeds the other by 2, then all the roots are

(A) 7, 9 and 3

(B) -7, -9 and -3

(C) 7, 9 and -3

(D) -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) 45°

(B) 30°

(C) 60°

(D) 90°

10. Let W_1 and W_2 be subspaces of dimensions 5 and 4 respectively of a vector space V of dimension 6.

Then $\dim(W_1 \cap W_2)$ is

(A) Zero

(B) one

(C) at most two

(D) at least three

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
- 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
- OMIM is engaged in study of
A) Human molecular Biology
B) Plant molecular biology
C) Bacterial molecular biology
D) Yeast Molecular biology
- 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
- 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
- FASTA-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%
- 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
- The scientific principle involved in radio and television is:
A) Superconductivity
B) Semiconductivity
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
- Which of the following is a deadly nerve gas developed during the second world war?
A) Nitric oxide
B) Phosgene
C) Sarine
D) Dioxin
- The natural rubber obtained from trees is made of:
A) Isoprene units
B) Vinyl chloride
C) Acetylene
D) Neoprene
- Which of the following is differentially permeable?
A) Cell wall
B) Tonoplast
C) Nuclear membrane
D) Cytoplasm
- Which of the following prevents leaf shedding in plant?
A) Auxins
B) Gibberellins
C) Cytokinins
D) Abscisic acid
- 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) Iodine
 - B) Bromine
 - C) Chlorine
 - D) Fluorine
9. 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
17. 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	B) 12
C) 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)

1. Which one of the following is an essential component of DNA?
 - A) Protein
 - B) Carbohydrate
 - C) Lipids
 - D) Vitamins
2. 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
3. A synthetic mRNA of repeating sequence 5'-CACACACACACACAC... 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.
 - A) 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
 - D) 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
 - B) a moderate repeating sequence and a coding for house keeping gene
 - C) a simple repeat sequence and no coding function
 - D) None of the above
7. 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
8. 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) AB or O
 - B) A, B, or O
 - C) A or B
 - D) A, B, AB, or O

4. A replicon is:
- an enzyme complex that replicates DNA
 - the amount of time required to duplicate a genome
 - 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?
- 0.5
 - 1.0
 - 0.75
 - 0.25
10. 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:
- 999
 - 630
 - 330
 - 111

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

1. Maximum volume of blood at a given time is found in the
- Heart
 - Capillaries
 - Venules and veins
 - Aorta
2. Zener diodes are also known as
- Voltage regulators
 - Forward bias diode
 - Breakdown diode
 - Power Amplifier
3. When is the bridge circuit balanced?
- When voltage is applied
 - When current flows through the opposite ends of the bridge circuit
 - When no current flows through the galvanometer
 - 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?
- Equilibrium point
 - Triple point
 - Normal point
 - Break Point
5. What is rectifier used for?
- for converting alternating current into direct current
 - for converting direct current into alternating current
 - for increasing the power of signal
 - for decreasing the voltage
6. Which of the following polymer is obtained by the condensation reaction between ethylene glycol and terephthalic acid?
- Terelene
 - PMMC
 - PVC
 - PVA

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

1. We can't produce colors with white light through:
- Interference
 - Polarization
 - Diffraction
 - Dispersion
2. Methods of Fourier Transformation are applied in
- Nuclear Magnetic Resonance
 - X-ray crystallography
 - Medical Imaging
 - All of the above
3. Which one of the following is correctly
6. Macrophage – like cells in the connective tissue are
- Osteoclasts
 - Mesangial cells
 - Histiocytes
 - Microglial cells
7. Zinc finger proteins and helix-turn-helix proteins are:
- Types of DNA-binding proteins
 - Involved in the control of translation
 - Components of ribosomes
 - Part of the hemoglobin in blood cells

- matched?
- Chloroplast – storage of enzymes
 - Lysosome – powerhouse of cell
 - Nucleolus – site of ribosomal synthesis
 - Glyoxysome – structural support of cell
- Which amino acid can stabilize protein structure by forming covalent cross links between polypeptide chains?
 - Ser
 - Gly
 - Glu
 - Cys
 - In CT imaging the phenomenon used is
 - Radiation absorption
 - Radiation damage
 - Free radical formation
 - Radiation fluorescence
 - Transcription of DNA into mRNA is catalyzed by
 - DNA polymerase
 - RNA synthetase
 - RNA polymerase
 - Rnase
 - Which nitrogenous bases is NOT found in DNA?
 - Thymine
 - Uracil
 - Adenine
 - guanine
 - How would the complementary strand of DNA appear if the original strand of DNA contained the bases T-A-G-C in the order?
 - U-A-C-G
 - G-C-A-T
 - T-A-C-G
 - A-T-C-G

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

Section A: General Science (Compulsory)

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

Forensic Science

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

Section B: Any two of the four sub-sections

Biology

- The most abundant protein on earth is
 - Keratin
 - Rubisco
 - RuBP
 - Fibrinogen
- Type of mimicry in which both the mimic 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
- $\text{NH}_3 > \text{H}_2\text{O} > \text{HF}$
 - $\text{H}_2\text{O} > \text{HF} > \text{NH}_3$
 - $\text{NH}_3 > \text{HF} > \text{H}_2\text{O}$
 - $\text{HF} > \text{H}_2\text{O} > \text{NH}_3$
- The element that shows both +3 and +4 oxidation is
 - Cerium
 - Promethium
 - Gadolinium
 - Holmium

Physics

- Where can Maxwell's equation be derived
 - Gauss's law
 - Gauss's magnetic law
 - Faraday law
 - All the above
- A particle executing a vibratory motion passing through mean point has
 - Maximum potential energy and minimum kinetic energy
 - Maximum kinetic energy and minimum potential energy
 - Kinetic energy and potential energy

- both maximum
- D) Kinetic energy and potential energy
- both minimum

Sample Questions for M.Sc. Statistics

1. $\lim_{x \rightarrow 0} \frac{\sin(\pi \cos^2 x)}{x^2}$ is
 - (a) π
 - (b) 1
 - (c) $-\pi$
 - (d) $\pi/2$

2. For $x \in \mathcal{R}$, $\lim_{x \rightarrow \infty} \left(\frac{x-3}{x+2}\right)^x$ is
 - (a) e^{-1}
 - (b) e
 - (c) e^{-5}
 - (d) e^5

3. The value of $\int_{-1}^2 |x - \{x\}| dx$, where $\{x\}$ is the greatest integer less than or equal to x and $\{x\}$ is the fractional part of x is
 - (a) $7/2$
 - (b) $5/2$
 - (c) $1/2$
 - (d) $3/2$

4. The value of $\int_{1/3}^3 \frac{1}{x} \sin\left(\frac{1}{x} - x\right) dx$ is

5. The number of accidents per week in a 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) $18e^{-3}$

6. The Quadratic form $Q(x, y, z) = x^2 + 3y^2 + 2z^2$ is
 - (a) Positive definite (b) Positive semi-definite (c) Negative definite (d) Indefinite

7. The function

$$f(x) = \begin{cases} \frac{\sin x}{x} & \text{for } x \neq 0 \\ 1 & \text{for } x = 0 \end{cases}$$
 is
 - (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 $n \times n$ real matrix. Then, which of the following statements is true?
 - (a) If the eigenvalues of A are $\lambda_1, \dots, \lambda_n$, then A is similar to a diagonal matrix with $\lambda_1, \dots, \lambda_n$ along the diagonal.
 - (b) If $\text{rank}(A) = r$, then A has 'r' non-zero eigenvalues.
 - (c) If $A^k = 0$ for some $k > 0$, then $\text{trace}(A) = 0$.
 - (d) If A has a repeated eigenvalue, then A is not diagonalizable.

9. 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

10. 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

11. 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) $\rho(A) \geq n$

12. Let F and G be two events in the sample space S such that $P(F \cup G) = .8$, $P(F) = p$ and $P(G) = .3$. The value of p for which F and G are independent is:
 - A. .5
 - B. .6
 - C. $2/3$
 - D. $1/5$

13. The particular integral of $(D^2 + D)y = x^2 + 2x + 4$ is
 - A. $4x+c$
 - B. $x^3 + 2x^2 + 4x + 4x$
 - C. $x^3/3 + 2x^2$
 - D. $x^3/3 + 4x$

14. The value of $\int_C \frac{z-3}{z^2+2z+5} dz$, where C: $|Z+1-i|=2$ is:
 - A. 0
 - B. $(i-2)$
 - C. $\pi((i-2))$
 - D. $\pi/2$

15. The residue of $f(z) = \frac{z^2}{(z-1)^2(z+2)}$ at pole 1 is:
 - A. $1/3$
 - B. $5/9$
 - C. $2/3$
 - 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 $p = \frac{dy}{dx}$, is
 A. $px + \sin^{-1}p$ B. $cx + \sin^{-1}c$ C. cx
 D. $\sin^{-1}c$
18. The value of k for which the area under the curve $f(x) = k(y+1)$, $2 < y < 4$ and zero otherwise, will be one is:
 A. $\frac{1}{8}$ B. 8 C. 1 D. $\frac{3}{4}$
19. The value of $\int_0^{\infty} x e^{-x/2} dx$ is:
 A. 2 B. 1 C. 4 D. $\frac{1}{2}$

20. A person selects two items randomly, one by one without replacement, from a lot containing 4 defective and 6 non-defective items. The probability that second drawn item will be defective given that first was non defective is:
 A. $\frac{4}{15}$ B. $\frac{6}{25}$ C. $\frac{4}{9}$ D. $\frac{4}{10}$
21. Random variable X follows Poisson distribution such that $3 P[X = 1] = 2 P[X = 2]$. The mean of X is:
 A. 2 B. 3 C. $\frac{3}{2}$ D. 1

Sample Questions for M.Sc. Geology

1. A Sandstone containing of at least 25% Feldspar is :
 A) Orthoquartzite
 B) Arkose
 C) Graywacke
 D) Sublithic Wacke
2. An intergrowth texture in which plagioclase contains inclusion of potash feldspar is known as :
 A) Perthite
 B) Antiperthite
 C) Graphic
 D) Seriate
3. Which of the following rock is not of metamorphic origin:
 A) Slate
 B) Phyllite
 C) Schist
 D) Shale
4. Mica Plate gives the retardation of:
 A) 1 Lameda
 B) $\frac{1}{2}$ Lameda
 C) $\frac{1}{4}$ Lameda
 D) Variable retardation
5. Which of the following mineral is Aluminosilicate:
 A) Quartz
 B) Garnet
 C) Biotite
 D) Sillimanite, Robins, Crows

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

1. Cholera spreads due to
 A. Air pollution
 B. Line sources
 C. Humid weather
 D. Water pollution
2. Type of immunoglobulin present in tears is
 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 ER
 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
 A. Danielli Robertson
 B. Singer and Nicolson
 C. Davson
 D. 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
 B. Chromatography
 C. Autoradiography
 D. SDS-PAGE
10. The cause of diabetes is

- A. Insulin deficiency
 - B. 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
 - B. 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; Increase
 - B. Increase; Decrease
 - C. Decrease; Increase
 - D. Decrease; Decrease
7. The affinity of an enzyme for its substrate, when the enzyme has a K_m of 0.50mM will be than 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 cells
 - C. B cells
 - D. RBCs
10. Cathepsin G is a marker for
 - A. Mitochondria

Sample Questions for M.Sc. Biotechnology

- B. Chloroplast
C. Lysosomes
D. Golgi bodies
1. Connect sequence of stages in cell cycle is
A) G₁, S, G₂, M
B) S, G₂, M, G₁
C) G₁, G₂, M, S
D) G₁, G₂, S, M
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
A) Tetracyclin
B) Ampicillin
C) Nystatin
D) Nalidixic acid
2. The development of egg without fertilization is called
A) Blastogenesis
B) Parthenogenesis
C) Cogeneration
D) Gametogenesis
E)
3. TATA box and Pribnow box are components of
A) Operators
B) Promoters
C) Enhancers
D) Activators
4. Peptide chain elongation involves all the following except
A) peptidyl transferase
B) GTP
C) Tu, Ts and G factors
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
A) 3' end
B) 5' end
C) both 3' and 5' end
D) 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 single-stranded DNA sequence 5' ATGCCTAGGTC?
A) 5' ATGCC,
B) 5' TACGG
C) 5' CTGGA
D) 5' GACCT

Sample Questions for M.Sc. Botany

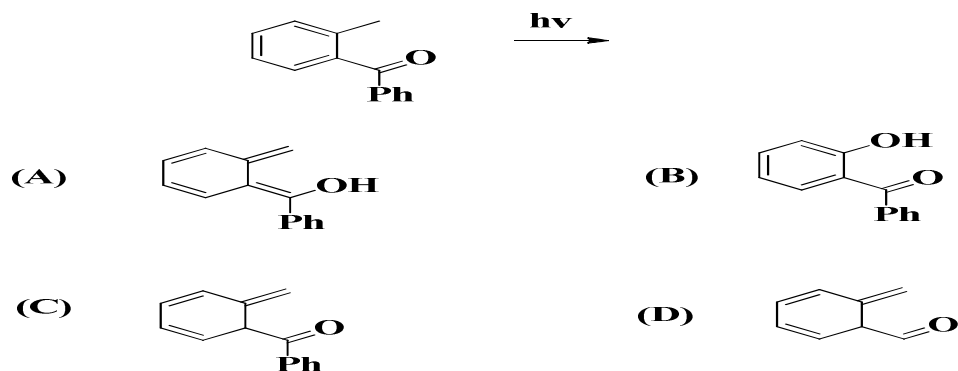
- In C_4 plants the first CO_2 acceptor is :
 - Ribulose – 1,5-bisphosphate
 - Phosphoenol pyruvate
 - Pyruvate
 - Ribulose-5-phosphate
- In majority of angiosperms, the female gametophyte at the time of fertilization is :
 - 8-celled
 - 7-celled
 - 6-celled
 - 4-celled
- Agar-agar is extracted from which of the following genera
 - Gracilaria*
 - Dictyota*
 - Ectocarpus*
 - Laminaria*
- Black rust of wheat is caused by :
 - Ustilago tritici*
 - Puccinia graminis tritici*
 - Protomyces macrosporus*
 - Albugo candida*
- Oomycota is a phylum in kingdom:
 - Fungi
 - Chromista
 - Protozoa
 - Mycota
- Cystidium is a
 - Sterile element occurring in the hymenium of certain Basidiomycetes
 - Reproductive organ of a green alga
 - Fertile part of lichen thallus
 - Asexual spore
- 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?
 - Cylothallus mirabilis*
 - Funaria hygromitrica*
 - Concephalum conium*
 - Pellia epiphylla*
- Somaclonal variations are:
 - Variations produced during tissue culture
 - Variations produced during sexual reproduction
 - Variations caused by mutagenic chemicals
 - Variations caused by Gamma rays
- Trisomic condition is expressed as
 - $2n-1$
 - $2n-2$
 - $2n+1$
 - $2n+2$
- The functional unit in ecology is the:
 - Organism
 - Biosphere
 - Ecosystem
 - Population

Sample Questions for M.Sc. Chemistry

1. Phenolic esters on heating with $AlCl_3$ gives o- and p- acyl phenol. This is termed as:

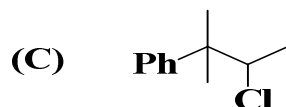
- | | |
|----------------------------|----------------------------|
| (A) Favorski rearrangement | (B) Beckmann rearrangement |
| (C) Fries rearrangement | (D) Wolff rearrangement |

2. Product of the rapid photochemical reaction of following aromatic compound is:



3. With the molecular formula $C_9H_{11}Cl$ assign the plausible structure to the compound from the following sets of NMR data:

- Quintet (δ 2.15) 2H
- Triplet (δ 2.75) 2H
- Triplet (δ 3.38) 2H
- Singlet (δ 7.22) 5H



4. Ozonolysis of butan-1-ene followed by reduction with Zn / CH₃COOH gives:

- (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) $\frac{2}{3} RT$ (B) $\frac{2}{3} N_0 kT$
(C) $\frac{3}{2} N_0 RT$ (D) $\frac{3}{2} N_0 kT$

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 (B) 4.35
(C) 1.3 (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
- 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
- Space quantization means that:
A) Space is quantized
B) L and U are in the same direction.
C) L_z can 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

4. 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 half-lives 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?
 - Mismatch repair
 - Base excision repair
 - Nucleotide excision repair
 - DNA helicase
- The part of the embryo from which ectoderm, endoderm and mesoderm are formed in chick is known as
 - Primitive streak
 - Hypoblast
 - Cytotrophoblast
 - Epiblast
- N-linked oligosaccharides on secreted glycoproteins are attached to
 - Nitrogen atoms in the polypeptide backbone
 - The serine or threonine in the sequence Asn-X-Ser/Thr
 - The amino terminus of the protein
 - The asparagines in the sequence Asn-X-Ser/Thr
- Which of the following in star fish can turn inside out?
 - Madreporite
 - Stone canal
 - Tube feet
 - Cardiac stomach
- Antennae in hymenoptera, diptera and odonata are
 - Short & filiform, aristate, geniculate respectively
 - Short & filiform, geniculate, aristate respectively
 - Geniculate, aristate, short & filiform respectively
 - Aristate, geniculate, short & filiform respectively
- Which of the following genus is the blood fluke of man and other animals?
 - Schistosoma
 - Ophisthorchis (Clonorchis)
 - Paragonimus
 - Diplozoon
- Populations that are morphologically similar but do not interbreed for physiological or behavioral reasons are grouped as
 - Races
 - Varieties
 - Sub-species
 - Sibling species
- The cranial capacity of which prehistoric human was almost the same as that of the modern man?
 - Neanderthal man
 - Peking man
 - Java ape man
 - Australopithecus man
- An example of competitive inhibition of an enzyme is the inhibition of
 - Succinic dehydrogenase by malonic acid
 - Cytochrome oxidase by cyanide
 - Hexokinase by glucose 6 phosphate
 - 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
 - The pH at which all groups are unprotonated
 - 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.) –2024

1.	Date of Availability of PU–CET (P.G.) Prospectus and Online Entrance Test Form at http://cetpg.puchd.ac.in	15-04-2024 (Monday)
2.	Last date for submission of information on the website to generate the Login and Password	24-05-2024 (Friday)
3.	Last date for deposit of fee through Online Mode only	28-05-2024 (Tuesday)
4.	Last date for uploading of photograph, signature with rest of the information on the website	30-05-2024 (Thursday)
5.	Last date for submission of printout of form alongwith required documents for claiming the concession of Entrance Test Fee for SC/ST/PwD/PU Employee to Assistant Registrar, CET Cell, Aruna Ranjit Chandra Hall, Panjab University, Chandigarh – 160014 by registered post/ speed post or by hand	04-06-2024 (Tuesday)
6.	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.	07-06-2024 (Friday)
7.	Candidates who have not completed their form but have paid their requisite fee, can complete their form by paying late fee of Rs. 500	12-06-2024 (Wednesday)
8.	Final date by which Admit Card/ Roll Nos. Will be issued manually by CET cell to the candidates who have completed their form by paying late fee of Rs. 500/-	12-06-2024 (Wednesday)
9.	Dates of holding Entrance Test	15-06-2024 (Saturday) & 16-06-2024 (Sunday)
10.	Centre for Entrance Test	Chandigarh, Hoshiarpur, Ludhiana and Muktsar
11.	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)	28-06-2024 (Friday)
12.	Last date of submission of objections to the Answer Key	30-06-2024 (Sunday)
13.	Uploading of the response to the Objections and inviting Cross-objections (through e-mail only)	05-07-2024 (Friday)
14.	Last day of submission of Cross-objections to the Answer key	07-07-2024 (Sunday)
15.	Date of declaration of result	15-07-2024 (Monday)
16.	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

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.) 2024

Date and Day of Test	Course	Time of Examination	
15-06-2024 (Saturday)	M.Sc. (Computer Science) (Specialisation in Data 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.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.Sc. (Stem Cell & Tissue Engineering)	4.00 p.m. to 5.30 p.m.	
	16-06-2024 (Sunday)	M.Sc. (Chemistry)	8.30 a.m. to 10.00 a.m.
		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.	
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.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.	
M.Tech. (Instrumentation)		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.