

Eligibility Conditions and Scheme of Test

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

Eligibility Conditions

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

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

OR

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

Scheme of Test

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

S.No	Components	Marks
1.	Constitutional Law, Administrative Law, Jurisprudence, Service Law, Environmental Law and Human Rights.	20 MCQ (1 Mark Each)
2.	Criminal Law (IPC, Criminal Procedure Code, Indian Evidence)	20 MCQ (1 Mark Each)
3.	Civil Law (Family Law, Torts, Labour Law, Consumer Protection Act, Criminal Procedure Code)	20 MCQ (1 Mark Each)
4.	Commercial Law (Indian Contract Act, Sale of Goods Act, Negotiable Instrument Act, Indian Partnership Act, Limited Liability Partnership Act, Company Law)	20 MCQ (1 Mark Each)
5.	RTI, IPR & Cyber Laws	20 MCQ (1 Mark Each)

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

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|----|--|----------|
| 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) 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)	10 (2 from each)
(h) Logical Reasoning	05

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

Master of Social Work

Eligibility Conditions

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

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

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 the entrance test have to apply afresh for admission in Social Work and will be called for Group Discussion and Personal Interview as per the schedule approved by the D.U.I.

M.E. (Chemical)

&

M.E. (Chemical with specialization in Environmental Engineering)

Eligibility Conditions:

B.E./ B.Tech. (Chemical) (04Years) or Five Year Integrated B.E.(Chemical) – MBA at least 60% marks in the aggregate from Panjab University or any other University recognized by Panjab University as equivalent thereto.

GATE qualified candidates shall be exempted from the PU-CET (P.G.)-2022 Test. However, in case of eligible GATE qualified candidates, the merit list will be as per the GATE score obtained and shall be offered the seat in the first instance. Preference will be given to GATE qualified candidates. Candidates appearing for PU – CET (P.G.) will be given admission if seats are left vacant after the GATE qualified candidates admissions.

There will be no cut off / qualifying marks.

The following order of preference is:

- A. GATE qualified candidates on the basis of their valid GATE score.
- B. CET (PG) appeared candidates on the basis of rank scored by them in CET (PG).
- C. B.E./ B.Tech. percentage of marks.

Scheme of Test:

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

In case of Objective Type questions papers having OMR sheets, there will 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 wrong answer ¼ marks will be deducted.

NOTE: There will be common entrance test for M.E. (Chemical) and M.E. (Chemical with specialization in Environmental Engineering).

M.E. (Food Technology)

Eligibility Conditions:

B.E./ B.Tech. degree in Food Technology / Dairy Technology/ Agricultural Engineering / Food Engineering at least 60% marks in the aggregate from Panjab University or any other University recognized by Panjab University as equivalent thereto.

GATE qualified candidates shall be exempted from the PU-CET (P.G.)-2022 Test. However, in case of eligible GATE qualified candidates, the merit list will be as per the GATE score obtained and shall be offered the seat in the first instance. Preference will be given to GATE qualified candidates. Candidates appearing for PU – CET (P.G.) will be given admission if seats are left vacant after the GATE qualified candidates admissions.

There will be no cut of/ qualifying marks.

The following order of preference is:

- A. GATE qualified candidates on the basis of their valid GATE score.
- B. CET (PG) appeared candidates on the basis of rank scored by them in CET (PG).
- C. B.E./ B.Tech. percentage of marks.

Scheme of Test:

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

In case of Objective Type questions papers having OMR sheets, there will 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 wrong answer ¼ marks will be deducted.

M.TECH. (POLYMER)

B.E./B.Tech. (Chemical) (04Years) or Five Year Integrated B.E.(Chemical) –MBA at least 60% marks in the aggregate from Panjab University or any other University recognized by Panjab University as equivalent thereto.

OR

Master's degree in Technical Chemistry/ Applied Chemistry / Industrial Chemistry /Chemistry (with Mathematics upto graduation) or an equivalent examination with at least 55% marks in aggregate from Panjab University (in case students are awarded degree in CGPA, they must have the conversion formula issued by the concerned University or Head of the Department) or any other University recognized by Panjab University as equivalent thereto.

GATE qualified candidates shall be exempted from the PU-CET (P.G.)-2022 Test. However, in case of eligible GATE qualified candidates, the merit list will be as per the GATE score obtained and shall be offered the seat in the first instance. Preference will be given to GATE qualified candidates. Candidates appearing for PU – CET (P.G.) will be given admission if seats are left vacant after the GATE qualified candidates admissions.

There will be no cut of/ qualifying marks.

The following order of preference is:

- A. GATE qualified candidates on the basis of their valid GATE score.
- B. CET (PG) appeared candidates on the basis of rank scored by them in CET (PG).
- C. B.E./ B.Tech. percentage of marks.

Scheme of Test:

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

In case of Objective Type questions papers having OMR sheets, there will 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 wrong answer ¼ marks will be deducted.

M.Sc. (INDUSTRIAL CHEMISTRY)

B.Sc. (Three Year Course) with Mathematics and Chemistry as compulsory subjects/B.Sc. (Hons.) Chemistry with Mathematics as a compulsory subject/B.Sc.(Three Year Course) with Industrial Chemistry and Mathematics as compulsory subject at least 55% marks in the aggregate from Panjab University or any other University recognized by Panjab University as equivalent thereto.

GATE qualified candidates shall be exempted from the PU-CET (P.G.)-2022 Test. However, in case of eligible GATE qualified candidates, the merit list will be as per the GATE score obtained and shall be offered the seat in the first instance. Preference will be given to GATE qualified candidates. Candidates appearing for PU – CET (P.G.) will be given admission if seats are left vacant after the GATE qualified candidates admissions.

There will be no cut of/ qualifying marks.

The following order of preference is:

- A. GATE qualified candidates on the basis of their valid GATE score.
- B. CET (PG) appeared candidates on the basis of rank scored by them in CET (PG).
- C. B.E./ B.Tech. percentage of marks.

Scheme of Test:

The duration of the Entrance Test will be of 1 hour 30 minutes and it will consist of 75 multiple-choice questions of one mark each consisting of 20 questions in Physics, 20 questions in Chemistry, 20 questions in Industrial Chemistry & 15 questions in Mathematics. The syllabus will be based broadly on the course contents generally covered during the qualifying examinations. Each question will be of one mark.

In case of Objective Type questions papers having OMR sheets, there will 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 wrong answer ¼ marks will be deducted.

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

Eligibility Conditions

B.E. / B. Tech or equivalent in Instrumentation and Control/ Electronics/Electrical Engineering with atleast 60% marks in the aggregate from Panjab University or any other University recognized by Panjab University as equivalent thereto. Admission is on the basis of entrance test PU-CET (PG) 2022 to be conducted by the Panjab University and interview. GATE qualified candidates will be exempted from the PU-CET (PG) Test. However, in case of eligible GATE qualified candidates, the merit list will be as per the GATE Score obtained and shall be offered the seat at the first instance.

Scheme of Test

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

**M.E. (Electronics and Communication Engineering) (Regular Programme) AND
M.E. (Electronics and Communication and Engineering with specialization in Artificial
Intelligence)**

Eligibility Conditions

B.E. or B. Tech or equivalent in Electronics /Electronics & Communication Engineering /Electronics and Telecom Engineering with at least 60% marks in the aggregate from Panjab University or any other university recognized by Panjab University as equivalent thereto.

GATE qualified candidates will be exempted from the PU–CET (P.G.)-2022 Test. However, in case of eligible GATE qualified candidates, the merit list will be as per the GATE score obtained and shall be offered the seat at the first instance.

Scheme of Test

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

**M. E. (Computer Science & Engineering) (Regular Programme) AND M.E. (Computer
Science and Engineering with specialization in Internet of Things)**

Eligibility Conditions

B.E. or B.Tech or equivalent in Computer Science and Engineering/Information Technology with at least 60% marks in aggregate from Panjab University or any other University recognized by Panjab University as equivalent thereto.

GATE qualified candidates shall be exempted from the PU–CET (P.G.) –2022 Test. However, in case of eligible GATE qualified candidates, the merit list will be as per the GATE score obtained and shall be offered the seat in the first instance.

Scheme of Test

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

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

A Bachelor's Degree in Civil Engineering from a recognized University or its equivalent with a minimum CGPA of 6.75 or 60% marks in aggregate and post qualification experience of at least 1 year (2 years in case of AMIE) in teaching / industry/ research organization. Admission (against vacant seats) is on the basis of entrance test PU-CET (P.G.)-2022 to be conducted by the Panjab University and interview. GATE qualified candidates will be exempted from the PU-CET (P.G.)-2022 Test. However, in case eligible GATE qualified candidates, the merit list will be as per the GATE score obtained and shall be offered the seat at the first instance.

Scheme of Test:

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

**M.E. Mechanical Engineering (Manufacturing Technology) (Regular Programme) AND
Mechanical Engineering with specialization in Robotics**

Eligibility Conditions:

A Bachelor' Degree in Mechanical Engg./ Production Engg./ Industrial Engg./ Automobile engineering/ Manufacturing Technology from a recognized University or its equivalent with a minimum CGPA of 6.75 or 60% marks in aggregate and post qualification experience of at least 1 year (2 years in case of AMIE) in teaching / industry / research organisation. Admission (against vacant seats) is on the basis of entrance test PU-CET (P.G.) to be conducted by the Panjab University and interview, GATE qualified candidates will be exempted from the PU-CET (P.G.) Test. However, in case of eligible GATE qualified candidates, the merit list will be as per the GATE score obtained and shall be offered the seat at the first instance.

Scheme of Test:

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

M.E. Electrical Engineering (Power System)

Eligibility Conditions:

Any candidate who has completed B.E./B.Tech. in Electrical/Electrical & Electronics Engineering with at least 60% marks in aggregate from Panjab University or any other University recognized by Panjab University as equivalent thereto.

Mode of admission:

Preference will be given to GATE qualified candidates. Candidate appearing for PU-CET (PG) will be given admission if some seats remain vacant after the GATE qualified candidates' admissions.

Scheme of Test:

The question paper will be based on the syllabus of Electrical and Electronics Engineering taught at undergraduate level in Panjab University Chandigarh. It will consist of 75 Objective type questions (Multiple choice with four responses i.e. A, B, C, and D) carrying a total of 75 marks. The question paper will be of 1 hour and 30 minutes duration.

M.Tech. (Material Science & Technology)

Eligibility Conditions:

M.Sc. (Physics), M.Sc. (Chemistry), B.E. (Mechanical / Electrical / Electronics and communication / Civil/ Production) with at least 60% marks in aggregate from Panjab University or any other University recognized by Panjab University as equivalent thereto.

Mode of admission:

Preference will be given to GATE qualified candidates. Candidate appearing for PU-CET (PG) will be given admission if seats remain vacant after the GATE qualified candidates' admissions.

Scheme of Test:

The question paper will be based on Physics, Chemistry and Mathematics taught at undergraduate engineering level in Panjab University, Chandigarh. It will consist of 75 Objective type questions (Multiple choice with four responses i.e. A, B, C and D) carrying a total of 75 marks. The question paper will be of 1 hour and 30 minutes duration.

M.E. (Biotechnology)

Eligibility Conditions:

B.E. / B.Tech. Biotechnology Engineering with at least 60% marks in aggregate from Panjab University or any other University recognized by Panjab University as equivalent thereto

Mode of admission:

Preference will be given to GATE qualified candidates. Candidate appearing for PU-CET (PG) will be given admission if seats remain vacant after the GATE qualified candidates' admissions.

Scheme of Test:

The question paper will be based on the syllabus of Biotechnology Engineering taught at undergraduate level in Panjab University Chandigarh. It will consist of 75 Objective type questions (Multiple choice with four responses i.e. A,B, C, and D) carrying a total 75 marks. The question paper will be of 1 hour and 30 minutes duration.

M.E. (Computer Science & Engineering)

Eligibility Conditions:

B.E. or B.Tech. or equivalent in Computer Science and Engineering / Information Technology with at least 60% marks in aggregate from Panjab University or any other University recognized by Panjab University as equivalent thereto.

Mode of admission:

Preference will be given to GATE qualified candidates. Candidate appearing for PU-CET (PG) will be given admission if some seats will be left vacant after the GATE qualified candidates admissions.

Scheme of Test:

The question paper will be based on the syllabus of Computer Science and Engineering taught at undergraduate level in Panjab University Chandigarh. It will consist of 75 Objective type questions (Multiple choice with four responses i.e. A, B, C, and D) carrying a total 75 marks. The question paper will be of 1 hour and 30 minutes duration.

M.E. (Electronics and Communication Engineering)

Eligibility Conditions:

B.E. or B.Tech. or equivalent degree in Electronics / Electronics & Communication Engineering / Electronic and Telecommunication Engineering with at least 60% marks in aggregate from Panjab University or any other University recognized by Panjab University as equivalent thereto.

Mode of admission:

Preference will be given to GATE qualified candidates. Candidate appearing for PU-CET (PG) will be given admission if seats remain vacant after the GATE qualified candidates admissions.

Scheme of Test:

The question paper will be based on the syllabus of Electronics & Communication Engineering taught at undergraduate level in Panjab University Chandigarh. It will consist of 75 Objective type questions (Multiple choice with four responses i.e. A, B, C, and D) carrying a total 75 marks. The question paper will be of 1 hour and 30 minutes duration.

M.E. (Information Technology)

Eligibility Conditions:

B.E. or B.Tech.or equivalent degree in Information Technology / Computer Science & Engineering / Electronics & Communication Engineering / Electrical & Electronics Engineering / Computer Science & Electronics Engineering / Software Engineering with at least 60% marks in aggregate from Panjab University or any other University recognized by Panjab University as equivalent thereto.

Mode of admission:

Preference will be given to GATE qualified candidates. Candidate appearing for PU-CET (PG) will be given admission if some seats will be left vacant after the GATE qualified candidates admissions'and according to the criteria.

Scheme of Test:

There will be no separate test. However, admission will be based on PU-CET (PG) in CSE/ ECE/ EEE. The order of preference will be (i) PU-CET (P.G.) in CSE (ii) PU-CET (P.G.) in ECE (iii) PU-CET (P.G.) in EEE.

M.E. (Mechanical Engineering)

Eligibility Conditions:

B.E./ B.Tech. in Mechanical Engineering / Production Engineering with at least 60% marks in aggregate from Panjab University or any other University recognized by Panjab University or any other University recognized by Panjab University as equivalent thereto.

Mode of admission:

The admission shall be made on the basis of Entrance Test P.U. CET (PG) to be conducted by the Panjab University.

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

Scheme of Test:

The question paper will be based on the syllabus of Mechanical Engineering / Production Engineering taught at undergraduate level in Panjab University Chandigarh. It will consist of 75 Objective type questions (Multiple choice with four responses i.e. A, B, C and D) carrying a total 75 marks. The question paper will be of 1 hour and 30 minutes duration.

M.Tech. (Microelectronics)

Eligibility Conditions:

B.E. / B.Tech. or equivalent degree in Computer Science and Engineering / Electrical / Electrical & Electronics / Electronics / Microelectronics / Electronics & Electrical Communications / Electronics & Telecommunication / Electronics & Communication / Information Technology / Instrumentation Engineering/ M.Sc. Applied Physics / M.Sc. Physics with specialization in Electronics or M.Sc. in Electronics (as approved by AICTE) with minimum 60% marks in aggregate from Panjab University or any other University recognized by Panjab University as equivalent thereto.

Mode of admission:

Preference will be given to GATE qualified candidates. Candidates appearing for PU-CET (PG) will be given admission if seats are left vacant after the GATE qualified candidates' admissions.

Scheme of Test:

The question paper will be based on the syllabus of Electronics / Electronics & Communication Engineering / Electronics and Telecommunication Engineering taught at undergraduate level in Panjab University Chandigarh. It will consist of 75 Objective type questions (Multiple choice with four response i.e. A, B, C and D) carrying a total of 75 marks. The questions paper will be of 1 hour and 30 minutes duration.

The scheme of test for M.Tech. (Microelectronics) should be same as that of M.E. (ECE) and Entrance Test for both should be one and common.

M.E. Computer Science Engineering (Cyber Security)

Eligibility Conditions

B.E. or B.Tech. or equivalent degree in Computer Science & Engineering / Information Technology with atleast 60% marks in aggregate from P.U. or any other recognized University.

Mode of admission:

Admission will be done on the basis of GATE Score. In case of left over seats, admission will be done on the basis of Entrance Test P.U.-CET (P.G.) to be conducted by the Panjab University.

Scheme of Test:

There will be no separate entrance test. However, admission will be based on PU-CET (P.G.) in M.E. (Computer Science & Engineering).

M.Com. (Business Economics)

Eligibility Conditions

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

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

Or

- (ii) Pass in the final examination conducted by (a) The Institute of Chartered Accountants of India or England, (b) The Institute of Cost and Works Accountants of India or 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 w.e.f. 2019-2021)

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.

* **Subject to the approval of the competent authority.**

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 in Business Administration (Commerce and Information Technology)

Eligibility Conditions

BA /B.Sc. / B.Com./any other Graduation Degree with 50% from Panjab University or any other University recognized by the Syndicate as equivalent thereto.

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 15 questions each on subject knowledge of Commerce, Economics, IT, Verbal ability/Reasoning and General awareness.

Master of Business Administration for Executives (Under Hons. School System at UBS w.e.f. 2019-2021)

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) Two years whole time executive experience in a commercial or Industrial establishment after passing the qualifying examination as given above. Members of all India or State Administrative / Technical Services and Defence Personnel holding administrative posts with not less than 2 years executive experience will also be eligible. No Objection Certificate from the employer is essential.
- (iii) 5% relaxation in minimum marks requirement would be granted to SC/ST/BC/PwD candidates as per PU guidelines.

Scheme of Test:

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

Merit List

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

Master of Physical Education (Two-Year Course)

Eligibility Conditions

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

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

Admission Procedure

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

Scheme of Test

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

Bachelor of Physical Education (Two-Year Course)

Eligibility Conditions

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

- a) Bachelor's Degree in any discipline with 50% marks and having at least participation in the Inter-College/Inter-Zonal District/ School competition in sports and games as recognized by the AIU/IOA/SGFI/Govt. of India;
OR
Bachelor's Degree in physical education with 45% marks;
OR
Bachelor's Degree in any discipline with 45% marks and studied physical education as compulsory elective subjects;
OR
Bachelor's Degree with 45% marks and having participated in National / Inter University / State competitions or secured 1st, 2nd or 3rd position in Inter College / Inter-Zonal /District / School competition in sports and games as recognized by the AIU/ IOA/SGFI/Govt. of India;
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)
- b) 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.
- c) Any other qualification recognized by the Syndicate as equivalent to above points.

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:-B.Sc. (Hons.) Biochemistry or its equivalent exam OR B.Sc. (Hons.) in any subject under CBCS with 24 credits in Biochemistry as Generic Elective subject OR 50% marks in B.Sc. (pass or Hons.) exam of the P.U. or any other exam, recognized by P.U. as equivalent to Biochemistry as one of the elective subjects +P.U. – CET (P.G.).

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

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

Scheme of Test

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

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

Eligibility Conditions

BCA/B.Sc. (Hons.) in Computer Science/ B. Tech. / B.E. (Computer Science/ Engineering) or any other examination recognized as equivalent thereto with 50% marks (5% concessional is admissible in eligibility requirement to SC/ST/BC/PwD candidates).

Candidates who have studied Computer Science as one of the subject for three years are not eligible (for example: B.Sc. with Physics, Mathematics and Computer Science applications).

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. (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 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 syllabi and standard for the question paper shall be the one as currently prescribed for Bachelor's Degree of Panjab University (1st, 2nd and 3rd Year together).

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

Eligibility Conditions

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

Scheme of Test

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

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

Eligibility Conditions

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

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

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

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

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

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

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

The question paper will comprise of 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)

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

OR

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

Scheme of Test

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

Component	Number of Questions
Mathematics	50
Statistics	25

Test will be based on the following topics:

STATISTICS

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

MATHEMATICS

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

Differentiation 7 Integration (Single and double integrals). Limits and Continuity, Complex variables and their functions, De-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 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).