| Roll. No          | Question Booklet Number |
|-------------------|-------------------------|
| O.M.R. Serial No. |                         |
|                   |                         |

# **B.Sc.** (PART-II) EXAMINATION, 2021 BIOTECHNOLOGY (NEW COURSE)

[PAPER First (BBT-201)]

(Instrumentation & Bio-Analytical Techniques)

| Paper ID |   |   |
|----------|---|---|
| 5        | 0 | 1 |

**Time: 1:30 Hours** 

**Question Booklet Series** 

B

Max. Marks: 150

### Instructions to the Examinee:

- 1. Do not open this Booklet untill you are told to do so.
- Candidates should fill their roll number, subject and series of question booklet details correctly, otherwise, in case of any discrepancy in the evaluation, it will be the responsibility of the examinee himself.
- 3. There are 100 questions in the booklet. Examinee is required to answer only 75 questions in the OMR Answer Sheet provided. Four alternative answer to each question are given below the question, out of these four only one answer is correct. The answer which you think is correct or most appropriate, completely fill in the circle containing its letter in your answer sheet (O.M.R. Answer Sheet) with black or blue ball point pen.

## परीक्षार्थियों के लिए निर्देश :

- जब तक कहा न जाये, इस प्रश्नपुस्तिका को न खोलें।
- परीक्षार्थी अपने अनुक्रमांक, विषय एवं प्रश्नपुस्तिका की सिरीज का विवरण यथास्थान सही-सही भरें, अन्यथा मूल्यांकन में किसी भी प्रकार की विसंगति की दशा में उसकी जिम्मेदारी स्वयं परीक्षार्थी की होगी।
- उ. प्रश्न-पुस्तिका में 100 प्रश्न हैं। परीक्षार्थी को केवल 75 प्रश्नों का उत्तर दी गई OMR उत्तर-पत्रक में देना है। प्रत्येक प्रश्न के चार वैकल्पिक उत्तर प्रश्न के नीचे दिये गये हैं। इन चारों में से केवल एक ही उत्तर सही है। जिस उत्तर को आप सही या सबसे उचित समझते हैं, अपने उत्तर-पत्रक (O.M.R. Answer Sheet) में उसके अक्षर वाले वृत्त को काले या नीले बॉल प्वाइंट पेन से पूरा भर दें।

(Remaining instructions on last page)

(शेष निर्देश अन्तिम पृष्ठ पर)

# **ROUGH WORK**

| 1. | We can track any metabolic pathway by using any radioisotopes by which technique? | 5. | Volatile pollutant/organic sample can be separated by :   |
|----|---|----|---|
|    | (A) Chromatography  |    | (A) TLC   |
|    | (B) Tracer technique  |    | (B) HPLC  |
|    | (C) Centrifugation  |    | (C) GC  |
|    | (D) None of the above   |    | (D) Spectrophotometer UV/Visible                          |
| 2. | Horizontal electrophoresis is also known as :                                     | 6. | The principal of pH meter is based on :                   |
|    | (A) Protein electrophoresis   |    | (A) Voltametery   |
|    | (B) DNA/RNA electrophoresis   |    | (B) Galvanometer  |
|    | (C) Amino acid electrophoresis  |    | (C) Paleography   |
|    | (D) SDS electrophoresis   |    | (D) Potentiometer   |
| 3. | Absorbtion spectroscopy is based on :   | 7. | The term pH is given by :                                 |
|    | (A) Beer-Lambert's law  |    | (A) Darwin  |
|    | (B) Bragg's law   |    | (B) Matnikuff   |
|    | (C) De Broglie equation   |    | (C) Sorensen  |
|    | (D) Newton's law  |    | (D) Muller  |
| 4. | How many monochromaters used in fluorescence spectrophotometer ?                  | 8. | In reducing gel electrophoresis, which chemical is used ? |
|    | (A) 3   |    | (A) SDS   |
|    | (B) 1   |    | (B) $\beta$ -mercaptoethanol                              |
|    | (C) 2   |    | (C) Alcohol   |
|    | (D) 0   |    | (D) Acid  |
|    |   |    |   |

| 9.  | Feulgen test is specific for :   | 14. | In SDS-PAGE, migration of protein is effected |
|-----|--|-----|---|
|     | (A) RNA  |     | by:   |
|     | (B) DNA  |     | (A) Charge of protein                         |
|     | (C) Lipid  |     | (B) Size of protein                           |
|     | (D) Protein  |     | (C) Net charge of protein                     |
| 10. | Chromatography cannot be used to purify volatile substances :            |     | (D) All of the above                          |
|     |  | 15. | Western Blalting is a part of :               |
|     | (A) True   |     | (A) Chromatography                            |
|     | (B) False  |     | (B) Electrophoresis                           |
|     | (C) Both (A) and (B)   |     | (C) Centrifugation                            |
|     | (D) None of the above  |     | (D) Radioactivity                             |
| 11. | Thin layer chromatography is :   | 16. | ELISA is based on :                           |
|     | (A) Partition chromatography   | 10. |   |
|     | (B) Electrical mobility of Ionic species                                 |     | (A) Antigen-antibody interaction              |
|     | (C) Adsorption chromatography  |     | (B) Antigen-protein interaction               |
|     | (D) None of the above  |     | (C) Lectin-antibody interaction               |
| 12. | Which of the following is not a failure in pH meters?                    |     | (D) All of these                              |
|     |  | 17. | The Golden rice variety is rich in :          |
|     | (A) Defective electrodes   |     | (A) Vitamin C                                 |
|     | (B) Defective input circuitry  |     | (B) $\beta$ -carotene and ferritin            |
|     | (C) Defective electronic circuit   |     |   |
|     | (D) Defective calibration  |     | (C) Biotin                                    |
| 13. | The electro phoresis technique that is used in isoelectric focusing is : |     | (D) Lysine                                    |
|     |  | 18. | PCR technique is invented by :                |
|     | (A) AGE  |     | (A) Karry Mullie                              |
|     | (B) 2D-PAGE  |     | (B) Boyer                                     |
|     | (C) PFGE   |     | (C) Sanger                                    |
|     | (D) SDS-PAGE   |     | (D) Cohn                                      |
|     |  |     |   |

| (.    | Write the extended notation of the GC-MS:  | 23. | Type of chromatography which uses a column of ligand is:   |
|-------|--|-----|--|
|       | (A) Geiger Counter - Mass Spectroscopy   |     | ·  |
|       | (B) Gas Chromatography - Mass<br>Spectroscopy  |     | (A) Affinity chromatography  (B) Adsorption chromatography |
|       |  |     | (B) Adsorption chromatography                              |
|       | (C) Gel Concentrator - Mass Spectroscopy   |     | (C) Ion-exchange chromatography                            |
|       | (D) Gradient Chromatography-Mass   |     | (D) Gel-filteration chromatography                         |
|       | Chromatography   | 24. | The base material used in electrophoresis is:              |
| 20.   | In X-ray tube,is used as source of electrons.  |     | (A) Polyacrylamids   |
|       |  |     | (B) Agarose  |
|       | (A) Anode  |     | (C) Carragenin   |
|       | (B) Cathode  |     | (D) Both (A) and (B)                                       |
|       | (C) Grid   | 25. | X-ray crystallography was developed by :                   |
|       | (D) Lead   |     | (A) Bragg  |
| 21.   | Time and location of DNA synthesis can be studied by means of :  (A) Extraction of DNA at regular intervals from different parts | 26. | (B) Kirk Patrick   |
|       |  |     | (C) Astbung and Franklin                                   |
|       |  |     | (D) Watson and Crick                                       |
|       |  |     | What will you call to the study of plant and               |
|       | (B) Electron microscopy  |     | animal tissues outside the body in a glass tube?           |
|       | (C) Carbon dating  |     | (A) In vivo  |
|       | (D) Radioactive DNA precursors   |     | (B) In vitro   |
| 22.   | Organelles can be separated from cell homogenate through :   |     | (C) Innate   |
|       |  |     | (D) Ecdysis  |
|       | (A) Chromatography   | 27. | Maximum magnification in an electron                       |
|       | (B) X-ray diffraction  |     | microscope is :  |
|       | (C) Differential/density gradient centri-<br>fugation  |     | (A) 2,000  |
|       |  |     | (B) 20,000   |
|       | (D) Auto radiography   |     | (C) 200  |
|       |  |     | (D) 2,00,000   |
| KNP/I | BBT-201(BIOTECH.)-B/300 (5)  |     | [P.T.O.]   |

- 28. When placed in a magnetic field, all the random spins of the nuclei :
  - (A) Misalign
  - (B) Reverse direction
  - (C) Align with magnetic field
  - (D) Rotate to 90° away from the induced field
- 29. The amount of energy available in radio frequency is sufficient for which of the following?
  - (A) Excite an atom
  - (B) Affect the nuclear spin of an atom
  - (C) Vibrate an atom
  - (D) Vibrate a molecule
- 30. Which of the following are used as source in fluorometry?
  - (A) Deutenium discharge lamp
  - (B) Incandescent wire
  - (C) Hydrogen lamp
  - (D) Mercury vapour lamp
- 31. The purpose of secondary filter in fluorescence spectroscopy is:
  - (A) Allows only excitation radiation
  - (B) Allows only emission radiation
  - (C) Allows both excitation and emission radiations
  - (D) Allows transmitted radiation

- 32. Which of the following is commonly used in Gram staining?
  - (A) Brarzilin
  - (B) Carmine
  - (C) Safranin
  - (D) Hematoxylin
- 33. Which of the following is a common nuclear stain?
  - (A) Safranin
  - (B) Fast green
  - (C) Hematoxylin
  - (D) Erythrosine
- 34. Lipip are commonly stained using :
  - (A) Fast green
  - (B) Orange G
  - (C) Suda stain
  - (D) Aceto carmine
- 35. Which of the following is not a fluorescent stain?
  - (A) Aniline blue
  - (B) Acridine orange
  - (C) Propidium Iodide
  - (D) Rhodamine
- 36. To study the 3-D structure of a molecule, which technique is useful?
  - (A) Chromatography
  - (B) X-ray crystallography
  - (C) Electrophoresis
  - (D) Centrifugation

37. The Base Peak in mass spectrum is: 42. Which of the following techniques would be most useful to identify as well as quantify the (A) The lowest mass peak presence of a known impurity in a drug (B) The peak corresponding to the parent substance? ion (A) NMR (C) The highest mass peak (B) MS (D) The peak set to 100% relative humidity (C) IR <sup>1</sup>H nuclei located near electronegative atoms 38. (D) HPLC tends to be relative to <sup>1</sup>H nuclei. 43. In IR spectroscopy, the wave number of Nitrile (A) Shielded group is observed in the range of: (A) 3500 - 3300 cm<sup>-1</sup> (B) Deshielded (B) 2200 - 2100 cm<sup>-1</sup> (C) Resonanced (C) 1740 - 1650 cm<sup>-1</sup> (D) Split (D) 3000 - 2800 cm<sup>-1</sup> 39. In reverse-phase HPLC, there is a: 44. Which of the following is used as a spraying (A) Non-polar solvent / Polar column reagent in paper chromatography? (B) Polar solvent / Non-polar column (A) Cone HCI (C) Polar solvent / Polar column (B) NaCl solution (D) Non-polar solvent / Non-polar column (C) Minhydrin solution 40. HPLC is an abbreviation for: (D) CuSO, solution (A) High Profit Liquid Chromatography 45. Silica gel G is used in: (B) High Pressure Liquid Chromatography (A) Column chromatography (C) Higher Performance Low Chromato-(B) Gas chromatography graphy (C) Thin layer chromatography (D) Higher Profit Low Chromatography (D) HPLC 41. In mass spectrometry, fragmentation of ions 46. Chromatography that involves the separation is achieved through: of Isomers: (A) Ionization (A) Thin layer chromatography (B) Counter current chromatography (B) Splitting (C) Chiral chromatography (C) Solubilization (D) Paper chromatography (D) Coupling

- 47. What is the Principle of Centrifugation?
  - (A) Sedimentation principle
  - (B) Filtration principle
  - (C) Evaporation principle
  - (D) Size reduction principle
- 48. What is the other name of Zonal Centrifugation?
  - (A) Isopycnic centrifugation
  - (B) Gradient centrifugation
  - (C) Density gradient centrifugation
  - (D) Differential centrifugation
- 49. Is centrifugation used in Bevarages Processing?
  - (A) True
  - (B) False
  - (C) None of the above
  - (D) Both (A) and (B)
- 50. Which is the formula for pH calculation?
  - (A)  $\log 10 [H^+]$
  - (B)  $-\log 10 \lceil H^+ \rceil$
  - (C)  $\log 2[H^+]$
  - (D)  $-\log 2\lceil H^+ \rceil$
- 51. Pure water is known to be which of the following?
  - (A) Weak electrolyte
  - (B) Strong electrolyte
  - (C) Neither weak nor strong
  - (D) Not an electrolyte

- 52. Which of the following is not a Radioisotope?
  - (A) Carbon 13
  - (B) Carbon 14
  - (C) Tritium
  - (D) Sulphur 35
- 53. What is detected during Positron Emission Tomography (PET) ?
  - (A) Positrons
  - (B) Electrons
  - (C) Neutrons
  - (D) Photons
- 54. Which part of the compound microscope helps in gathering and focusing light rays on the specimen to be viewed?
  - (A) Eyepiece lens
  - (B) Objective lens
  - (C) Condenser lens
  - (D) Magnifying lens
- 55. Oil immersion objective lens has an NA value of :
  - (A) 0.65
  - (B) 0.85
  - (C) 1.33
  - (D) 1.00

56. The 'tracking dye' used in SDS-PAGE will 61. Which is the technique suited for the separation of large DNA fragments? be: (A) AGE (A) Anionic detergent (B) PAGE (B) Cationic detergent (C) PFGE (C) Anion exchanger (D) SDS-PAGE (D) Non-ionic detergent 62. In a Gel Filtration column: 57. In SDS-PAGE, migration of protein is effected by: (A) Smaller proteins enter the beads more readily (A) Charge of protein (B) Large proteins elute first (B) Size of protein (C) Both (A) and (B) (C) Net charge of protein (D) Large proteins enter the beads more (D) All of these readily 58. Proteins can be visualized directly in gels by : 63. What is the wavelength range for UV spectrum (A) Staining them with the dye of light? (B) Using electron microscope only (A) 400 nm - 700 nm (C) Measuring their molecular weight (B) 700 nm to 1 mm (C) 0.01 nm to 10 nm (D) None of these (D) 10 nm to 400 nm 59. In an SDS-PAGE: 64. Energy of the discrete particles can be given (A) Proteins are denatured by the SDS by: (B) Proteins have the same charge to mass (A) Photons ratio (B) Protoplasm (C) Smaller proteins migrate more rapidly through the gel (C) Electrons (D) All of the above (D) Neutrons 60. The most common type of gel used for DNA 65. Which of the following is having more separation is: wavelength? (A) Agar (A) X-rays (B) Polyacrylamide (B) Cosmic waves (C) Radio waves (C) Agarose (D) Gamma rays (D) All of the above

(A) Magnifying power of the objective lens (B) Magnifying power of eyepiece (C) Magnifying power of condenser lens (D) Magnifying power of both the objective lens and eyepiece 67. Why are thin sections of specimens necessary in TEM? (A) Electrons are very charged (B) Electrons have a wave nature (C) Electrons have no mass (D) Electrons have a poor penetrating power 68. Osmium tetroxide is used in electron microscopy as a: (A) Precipitator (B) Mordant (C) Staining agent (D) Fixing agent 69. Which instrument is more useful to study the surface details of a specimen? (A) Phase Contrast Microscope (B) Scanning Electron Microscop (SEM) (C) Light Microscope (D) Transmission Electron Microscope (TEM) 70. Geiger-Muller counter is a: (A) Gas filled detector (B) Scintillation detector (C) Liquid scintillation detector (D) Well counter

Total magnification is obtained by:

66.

71. Secondary floor is: (A) OP (B) POP (C) POPOP (D) P 72. Radioactivity discovered by: (A) Darwin (B) Muller (C) Mendel (D) Becquerel 73. Which of the following is used as a carrier gas in gas chromatography? (A) CO, (B) Oxygen (C) Helium (D) Methane 74. Ion-exchange chromatography is based on: (A) Electrostatic attraction (B) Electrical mobility of ionic species (C) Partition chromatography (D) Adsorption chromatography 75. In size exclusion chromatography, solute molecules are separated based on : (A) Molecular geometry and size (B) Molecular composition

(C) Molecular phase

(D) Molecular formula

- 76. Protein may be separated according to size by:(A) Isoelectric focusing(B) Molecular exclusion chromatography
  - (C) Ion-exchange chromatography
  - (D) Reverse phase chromatography
- 77. Chromatography with solid stationary phase is called :
  - (A) Circle chromatography
  - (B) Square chromatography
  - (C) Solid chromatography
  - (D) Adsorption chromatography
- 78. The mobile phase can be:
  - (A) Only Gas
  - (B) Liquid
  - (C) Only Solid
  - (D) Both gas and liquid
- 79. Which technique separates charged particles using electric field?
  - (A) Hydrolysis
  - (B) Electro phoresis
  - (C) Protein synthesis
  - (D) Protein denaturing
- 80. Agrose can be extracted from which of the following ?
  - (A) Lycazusican esculentum
  - (B) Ficum benghalensis
  - (C) Gracilaria esculentus
  - (D) Agrostis stolonifera

- 81. The electrophoretic mobility denoted as  $\mu$  is mathematically expressed as :
  - (A) *VE*
  - (B)  $\frac{V}{E}$
  - (C)  $\frac{E}{V}$
  - (D)  $\frac{1}{EV}$
- 82. For which molecule, electrophores is not used?
  - (A) Separation of proteins
  - (B) Separation of amino acids
  - (C) Separation of lipids
  - (D) Separation of nucleic acid
- 83. Pulse field gel electrophoresis was developed by:
  - (A) Collins and John
  - (B) Kary Mullis
  - (C) Patrick O' Farrell
  - (D) Schwartz and Cantor
- 84. In SDS-PAGE, migration of protein is effected by:
  - (A) Charge of protein
  - (B) Size of protein
  - (C) Net charge of protein
  - (D) All of these

| 85. | Which among of the following the wave is not employed in case of remote sensing? | 89. | Which is the unit of absorbance which can be delivered from Beer Lambert's law?       |
|-----|--|-----|---|
|     | (A) X-rays   |     | (A) L mol <sup>-1</sup> cm <sup>-1</sup>  |
|     | (B) Visible ray  |     | (B) L gm <sup>-1</sup> cm <sup>-1</sup>   |
|     | (C) Thermal IR   |     | (C) cm  |
|     | (D) Radio waves  |     | (D) No unit   |
| 86. | Electromagnetic waves varies fromto  | 90. | IR spectrum is a plot of :  |
|     | (A) meters to nanometer  |     | (A) % transmittance versus time   |
|     | (B) meters to micrometers  |     | (B) % transmittance versus wave number  |
|     | (C) nano to micrometers  |     | (C) Peak area versus time   |
|     | (D) centimetern to nanometer   |     | (D) Peak area versus wave number  |
| 87. | The formula of energy produced from the body can be given as :                   | 91. | How do UV light microscope use fluorescence to make images ?                          |
|     | (A) $Q = \frac{h \times c}{\lambda}$   |     | (A) Objects absorb invisible UV light and emit visible light to make image            |
|     | (B) $Q = \lambda \times h \times c$  |     | (B) Objects absorb invisible UV light and emit nothing                                |
|     | (C) $Q = h + \frac{c}{\lambda}$  |     | (C) Object transmits UV light without obsorbing it                                    |
|     | (D) $Q = h + c \times \lambda$   |     | (D) Objects scatter all UV light so it never enters the microscope's objective lenses |
| 88. | Beer's law state that the intensity of light decreases with respect to :         | 92. | NMR is the study of the absorption ofby nuclei in a magnetic field.                   |
|     | (A) Concentration  |     | (A) Radioactive radiation   |
|     | (B) Distance   |     | (B) IR radiation  |
|     | (C) Composition  |     | (C) Radio frequency radiation   |
|     | (D) Volume   |     | (D) Microwave radiation   |
|     |  |     |   |

(12)

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| 93. | Monoclonal antibodies are produce by which technique ?                                      | 97.  | Enzyme linked with the antibody is known as:     |
|-----|---|------|--|
|     | (A) Mycloma   |      | (A) Primary antibody                             |
|     |   |      | (B) Secondary antibody                           |
|     | (B) Hybridoma   |      | (C) Monoclonal antibody                          |
|     | (C) Monocytes   |      | (D) Enzyme antibody                              |
|     | (D) Adipocytes  | 98.  | The correct formula for half life detection is : |
| 94. | The pH at which the total charge of protein is zero is known as :                           |      | (A) $\lambda = 0.693 \times t$                   |
|     | (A) Isotachophoresis  |      | (B) $t_{1/2} = 0.693 + \lambda$                  |
|     | (B) Neutral point   |      | 0.693  |
|     | (C) Isoelectric point   |      | (C) $t_{1/2} = \frac{0.693}{\lambda}$            |
|     | (D) Zero point  |      | $\lambda$  |
| 95. | Which one of the following is not the part of   |      | (D) $k = \frac{\lambda}{0.693}$                  |
|     | Centrifuge Machine ?  | 99.  | What is small 's' stands for in centrifugation?  |
|     | (A) Rotor   |      | (A) Sedimentation coefficient                    |
|     | (B) Gel casting tray  |      | (B) Sedimentation                                |
|     | (C) Lid   |      | (C) Savedberg                                    |
|     | (D) Axis  |      | (D) None of the above                            |
| 96. | Distance travelled by solute/Distance travelled by solvent in chromatography is termed as : | 100. | Bond vibration of a molecule can be studied by:  |
|     | (A) Reference point   |      | (A) Circular dichrorism                          |
|     | (B) End point   |      | . ,  |
|     | (C) Retention factor  |      | (B) Absorption spectroscopy                      |
|     |   |      | (C) NMR  |

(D) Sample point

(D) Vibrational spectroscopy

# **ROUGH WORK**

# **ROUGH WORK**

## Example:

#### Question:

Q.1 (A) (C) (D)

Q.2 **A B O** 

Q.3 **A O O O** 

If more than 75 questions are attempted by candidate, then the first attempted 75 questions will be considered for evaluation.

- Each question carries equal marks.
   Marks will be awarded according to the number of correct answers you have.
- All answers are to be given on OMR Answer Sheet only. Answers given anywhere other than the place specified in the answer sheet will not be considered valid.
- 6. Before writing anything on the OMR Answer Sheet, all the instructions given in it should be read carefully.
- 7. After the completion of the examination, candidates should leave the examination hall only after providing their question booklet and OMR Answer Sheet separately to the invigilator.
- 8. There will be no negative marking.
- 9. Rough work, if any, should be done on the blank pages provided for the purpose in the booklet.
- To bring and use of log-book, calculator, pager & cellular phone in examination hall is prohibited.
- In case of any difference found in English and Hindi version of the question, the English version of the question will be held authentic.

Impt. On opening the question booklet, first check that all the pages of the question booklet are printed properly. If there is any discrepancy in the question Booklet, then after showing it to the invigilator, get another question Booklet of the same series.

#### उदाहरण :

#### प्रश्न :

प्रश्न 1 **(A) (D) (D)** 

प्रश्न 2 **(A) (B) (D)** 

प्रश्न 3 **(A) (D)** 

यदि परीक्षार्थी द्वारा 75 से अधिक प्रश्नों को हल किया जाता है तो प्रारम्भिक हल किये हुए 75 उत्तरों को ही मूल्यांकन हेतु सम्मिलित किया जाएगा।

- प्रत्येक प्रश्न के अंक समान हैं। आपके जितने उत्तर सही होंगे, उन्हीं के अनुसार अंक प्रदान किये जायेंगे।
- 5. सभी उत्तर केवल ओ०एम०आर० उत्तर-पत्रक (OMR Answer Sheet) पर ही दिये जाने हैं। उत्तर-पत्रक में निर्धारित स्थान के अलावा अन्यत्र कहीं पर दिया गया उत्तर मान्य नहीं होगा।
- 6. ओ॰एम॰आर॰ उत्तर-पत्रक (OMR Answer Sheet) पर कुछ भी लिखने से पूर्व उसमें दिये गये सभी अनुदेशों को सावधानीपूर्वक पढ़ लिया जाये।
- 7. परीक्षा समाप्ति के उपरान्त परीक्षार्थी कक्ष निरीक्षक को अपनी प्रश्नपुस्तिका बुकलेट एवं ओ०एम०आर० शीट पृथक-पृथक उपलब्ध कराने के बाद ही परीक्षा कक्ष से प्रस्थान करें।
- 8. निगेटिव मार्किंग नहीं है।
- 9. कोई भी रफ कार्य, प्रश्न-पुस्तिका में, रफ-कार्य के लिए दिए खाली पेज पर ही किया जाना चाहिए।
- 10. परीक्षा-कक्ष में लॉग-बुक, कैल्कुलेटर, पेजर तथा सेल्युलर फोन ले जाना तथा उसका उपयोग करना वर्जित है।
- 11. प्रश्न के हिन्दी एवं अंग्रेजी रूपान्तरण में भिन्नता होने की दशा में प्रश्न का अंग्रेजी रूपान्तरण ही मान्य होगा।

महत्वपूर्णः प्रश्नपुस्तिका खोलने पर प्रथमतः जाँच कर देख लें कि प्रश्नपुस्तिका के सभी पृष्ठ भलीभाँति छपे हुए हैं। यदि प्रश्नपुस्तिका में कोई कमी हो, तो कक्षनिरीक्षक को दिखाकर उसी सिरीज की दूसरी प्रश्नपुस्तिका प्राप्त कर लें।