

Roll No.

Question Booklet Number

O. M. R. Serial No.

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M. Sc. (Microbiology) (Second Semester)

EXAMINATION, 2022-23

BACTERIAL METABOLISM & PHYSIOLOGY

Paper Code

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Questions Booklet
Series

A

Time : 1:30 Hours]

[Maximum Marks : 75

Instructions to the Examinee :

1. Do not open the booklet unless you are asked to do so.
2. The booklet contains 100 questions. Examinee is required to answer 75 questions in the OMR Answer-Sheet provided and not in the question booklet. All questions carry equal marks.
3. Examine the Booklet and the OMR Answer-Sheet very carefully before you proceed. Faulty question booklet due to missing or duplicate pages/questions or having any other discrepancy should be got immediately replaced.

परीक्षार्थियों के लिए निर्देश :

1. प्रश्न-पुस्तिका को तब तक न खोलें जब तक आपसे कहा न जाए।
2. प्रश्न-पुस्तिका में 100 प्रश्न हैं। परीक्षार्थी को 75 प्रश्नों को केवल दी गई OMR आन्सर-शीट पर ही हल करना है, प्रश्न-पुस्तिका पर नहीं। सभी प्रश्नों के अंक समान हैं।
3. प्रश्नों के उत्तर अंकित करने से पूर्व प्रश्न-पुस्तिका तथा OMR आन्सर-शीट को सावधानीपूर्वक देख लें। दोषपूर्ण प्रश्न-पुस्तिका जिसमें कुछ भाग छपने से छूट गए हों या प्रश्न एक से अधिक बार छप गए हों या उसमें किसी अन्य प्रकार की कमी हो, तो उसे तुरन्त बदल लें।

(Remaining instructions on the last page)

(शेष निर्देश अन्तिम पृष्ठ पर)

(Only for Rough Work)

1. Carrier protein takes part in :
 - (A) Water transport
 - (B) Active transport of ions
 - (C) Passive diffusion of molecules
 - (D) None of the above

2. Which of the following is energy independent ?
 - (A) Active transport
 - (B) Primary active transport
 - (C) Secondary active transport
 - (D) Passive transport

3. Gene expression in *nif* operons is dependent on :
 - (A) RNA polymerase σ_{54} factor
 - (B) Nif A and Nif L
 - (C) Only (B)
 - (D) Both (A) and (B)

4. Which of the following is not an accessory pigment ?
 - (A) Chlorophyll a
 - (B) Beta-carotene
 - (C) Xanthophyll
 - (D) Lutein

5. Which of the following acts as a chemical reductant in bacterial photosynthesis ?
 - (A) oxygen
 - (B) water
 - (C) hydrogen sulphide
 - (D) ammonia

6. Where are bacteriochlorophyll present in the cell ?
 - (A) chloroplast
 - (B) cytoplasm
 - (C) mitochondria
 - (D) membrane

7. Which of the following is incorrect regarding freeliving diazotrophs protection of the oxygen-sensitive nitrogenase enzyme ?
 - (A) Leghemoglobin synthesis
 - (B) High rates of respiration
 - (C) Synthesis of secondary Fe-proteins
 - (D) The formation of heterocysts

8. Which of the following is involved in the activation of RuBisCO ?
 - (A) Ca^{++}
 - (B) K^+
 - (C) Zn^{++}
 - (D) Mg^{++}

9. Membrane proteins :
- (A) lower the activation energy for transport
 - (B) act as enzyme
 - (C) involve in passive diffusion
 - (D) always require energy
10. Siderophores chelates :
- (A) Ferric ion
 - (B) Ferrous ion
 - (C) Both ferric and ferrous ion
 - (D) None of the above
11. Bacteriorhodopsin functions as :
- (A) Photosynthetic pigment
 - (B) Light-driven proton pump
 - (C) Photoreceptors
 - (D) Both (A) and (C)
12. The first compound formed during Calvin cycle is :
- (A) RuBP
 - (B) 3-phosphoglycerate
 - (C) 3-phosphoglyceraldehyde
 - (D) CO₂
13. How many different types of nitrogenase enzyme complexes are involved in the biological conversion of di-nitrogen to ammonia ?
- (A) Three
 - (B) Four
 - (C) Five
 - (D) Six
14. Which of the following acts as electron donor of photosynthesis in cyanobacteria ?
- (A) oxygen
 - (B) water
 - (C) hydrogen sulphide
 - (D) ammonia
15. Acetyl CoA enzyme pathway found in :
- (A) methanogens
 - (B) sulfate reducers
 - (C) acetogenic bacteria
 - (D) All of the above
16. Lux operon involves :
- (A) *LuxICDABE*
 - (B) *Lux CDABE*
 - (C) *LuxCDABE*
 - (D) *LuxAB*

17. PEP-PTS requires :
- (A) Protons
 - (B) ATP
 - (C) Phosphoenolpyruvate
 - (D) All of the above
18. A product or products of glycolysis is/are :
- (A) ATP
 - (B) H₂O
 - (C) CO₂
 - (D) Both (A) and (B)
19. The enzyme luciferase produces bioluminescence when FMNH₂ and fatty aldehyde react chemically with :
- (A) Hydrogen
 - (B) Oxygen
 - (C) Methane
 - (D) Carbon dioxide
20. The FADH₂ formed during the TCA cycle enters the electron transport system at which site ?
- (A) NADH dehydrogenase
 - (B) cytochrome
 - (C) coenzyme Q
 - (D) ATP synthase
21. Which is the source of the energy used to make ATP by oxidative phosphorylation ?
- (A) Oxygen
 - (B) high-energy phosphate bonds
 - (C) the proton motive force
 - (D) P_i
22. The cytochrome *d* branch of ETS :
- (A) functions at low oxygen level
 - (B) works during exponential phase
 - (C) functions at high oxygen level
 - (D) actively pump protons
23. Which of the following are functions of phosphates used in the preparation of media ?
- (A) they act as buffer
 - (B) source of phosphorous
 - (C) act as “reserve alkali”
 - (D) they act as buffer and is a source of phosphorous
24. Which molecule typically serves as the final electron acceptor during fermentation ?
- (A) oxygen
 - (B) NAD⁺
 - (C) pyruvate
 - (D) CO₂

25. Which one of the following is the one having highest reduction potential ?
- Ubiquinone
 - O₂
 - FMN
 - NAD
26. ATP synthase involves in :
- Synthesis of ATP
 - Hydrolysis of ATP
 - Only (A)
 - Both (A) and (B)
27. ED pathway first reported in :
- Pseudomonas saccharophila*
 - Bacillus subtilis*
 - Salmonella typhimurium*
 - Xanthomonas campestris*
28. Which of the following enzymes acts in the pentose phosphate pathway ?
- 6-phosphogluconate dehydrogenase
 - Aldolase
 - Glycogen phosphorylase
 - PFK-1
29. Methanogens do not produce :
- CO₂
 - CO₂ + CH₄
 - CH₄
 - O₂
30. Which of the following are capable of reducing inorganic compounds such as iron, nitrogen and sulfur ?
- Chemolithoautotrophs
 - Chemolithotrophic autotrophs
 - Photoautotrophs
 - Both (A) and (B)
31. Find the incorrect match of enzymes with its substrates :
- Hexokinase-glucose
 - Pyruvate kinase-Phospho-enol pyruvate
 - Enolase-Pyruvate
 - Aldolase-Fructose-1,6 bisphosphate
32. Which of the following describes an active transportation characteristic ?
- Uphill process
 - Require energy
 - Against electrochemical gradient
 - All of the above
33. At low ammonia concentrations, the main pathway for ammonia incorporation involves :
- Glutamate dehydrogenase
 - Alanine dehydrogenase
 - Glutamine synthetase and glutamate synthase
 - Glutamate synthase

34. Which of the following is not a co-enzyme ?
- (A) NAD
 - (B) NADP
 - (C) FAD
 - (D) Mn^{++}
35. Which of the following statements is NOT true ?
- (A) HMP shunt stands for hexose monophosphate shunt
 - (B) HMP shunt does not generate CO_2
 - (C) HMP does not generate ATP
 - (D) pentose phosphate pathway takes place in cytosol
36. accepts Hydrogen from Malate.
- (A) FAD
 - (B) NAD
 - (C) NADP
 - (D) FMN
37. *Paracoccus denitrificans* electron transport chain :
- (A) having anaerobic transport chain
 - (B) having aerobic transport chain
 - (C) having both aerobic and anaerobic transport chain
 - (D) None of the above
38. The rate limiting step of Calvin cycle is catalyzed by which enzyme ?
- (A) RuBisCO
 - (B) Phosphoglycerate kinase
 - (C) Ribose phosphate isomerase
 - (D) Transketolase
39. Which of the following about the impact of nitrogen supplies on the nitrogenase enzyme complex is incorrect ?
- (A) Transcriptional regulation controls the synthesis of the nitrogenase enzyme.
 - (B) The Fe protein is reversibly inactivated by ADP-ribosylation.
 - (C) Mo-Fe protein is reversibly deactivated by ADP-ribosylation.
 - (D) Interfering with the supply of reductant to nitrogenase
40. Gibbs-Donnan effect leads to :
- (A) Non-diffusible ions between 2 sides will be equal
 - (B) Diffusible ions between 2 sides will be equal
 - (C) Equal concentrations of ions on both sides
 - (D) Osmotic gradient

41. Which of the following is the correct sequence of electron acceptors in ETS for production of ATP ?
- (A) Cyt b, c, a, a₃
 (B) Cyt a, a, b, c
 (C) Cyt c, b, a, a₃
 (D) Cyt b, c, a₃, a
42. Oxidative phosphorylation results in the formation of :
- (A) Oxygen
 (B) ADP
 (C) ATP + H₂O
 (D) NADH
43. Gases such as carbon dioxide and oxygen cross the cell membrane by :
- (A) Primary active transport
 (B) Secondary active transport
 (C) Passive diffusion through lipid bilayer
 (D) Gas transport protein
44. Which statement is correct about ABC transporters ?
- (A) use the energy of ATP hydrolysis
 (B) can transport amino acids, peptides, sugars
 (C) None of the above
 (D) Both of the above
45. Which statement is not true for PEP-PTS ?
- (A) Phosphorylation of molecule while transportation
 (B) Oxidation of molecule while transportation
 (C) Involves two enzymes
 (D) Heat-stable protein is a part of PEP-PTS
46. What is the dissimilarity between active transport and facilitated diffusion ?
- (A) Both face saturation effect
 (B) Both requires transporters
 (C) Glucose molecule can be transported
 (D) Both requires ATP
47. Secondary active transport depends upon :
- (A) ATP
 (B) H⁺ and Na⁺ gradient
 (C) NADH
 (D) FMNH₂

48. Which of the following is a chlorophyll molecule lacking central Mg^{2+} ion ?
- (A) Chla
(B) Bacteriochlorophyll
(C) Chlc
(D) Pheophytin
49. Name the physiochemical process in which chemical energy is produced by light energy :
- (A) Photosynthesis
(B) Respiration
(C) Oxidative decarboxylation
(D) Oxidative phosphorylation
50. Cyclic photophosphorylation results in the formation of :
- (A) ATP
(B) NADPH
(C) ATP + NADPH
(D) ATP + NADPH and O_2
51. Reduction of NADP occurs in :
- (A) Oxidative photophosphorylation
(B) Cyclic photophosphorylation
(C) Non cyclic photophosphorylation
(D) None of the above
52. In what case, the transporters are known as antiporters ?
- (A) when 2 substances move in same direction
(B) when 2 substance move in same direction and 1 in opposite
(C) when 3 substances move in same direction
(D) when 2 substances move in opposite direction
53. Electrochemical gradient exists whenever there is :
- (A) A net difference in charges
(B) Excess liquids
(C) No. difference in charges
(D) None of the above
54. In EMP pathway, the process by which ATP is formed from ADP is :
- (A) Reduction
(B) Oxidative phosphorylation
(C) Substrate-level phosphorylation
(D) Photophosphorylation

55. The Reactive Oxygen Species (ROS) produced by some bacteria are degraded by which of the following enzymes ?
- (A) Peroxidase
 - (B) Lyase
 - (C) Catalase
 - (D) Superoxide dismutase, Catalase and Peroxidase
56. Drastic variations in cytoplasmic pH can harm microorganisms by :
- (A) disrupting the plasma membrane
 - (B) inhibiting the activity of enzymes
 - (C) inhibiting the activity of transport proteins
 - (D) All of the above
57. What is not correct about the Pho Regulon ?
- (A) involve in conservation and management of inorganic phosphate
 - (B) controlled by a two-component regulatory system
 - (C) Pho Regulon is Involved in Pathogenesis
 - (D) None is true
58. Nitrogenase can reduce a variety of molecules other than N_2 :
- (A) Acetylene
 - (B) Cyanide
 - (C) None of the above
 - (D) Both (A) and (B)
59. Cleavage of Fructose 1, 6-biophosphate yields :
- (A) Two aldoses
 - (B) Two ketoses
 - (C) An aldose and a ketose
 - (D) Only a ketose
60. A number of pressures may have selected for multicellularity, including :
- (A) physicochemical stress
 - (B) nutrient scarcity
 - (C) predation
 - (D) All of the above
61. Which statement is not true about nitrifying bacteria ?
- (A) Biological ammonia oxidation to nitrate
 - (B) Reduction of nitrate to ammonia
 - (C) Use proton motive force to reverse the flow of electrons and reduce NAD
 - (D) Make ATP by oxidative phosphorylation

62. Which prokaryotes are characterised by having relatively high concentrations of sterols ?
- (A) Sulfur oxidizing bacteria
 (B) Cyanobacteria
 (C) Methane oxidizing bacteria
 (D) Nitrifying bacteria
63. Sulfur-oxidizing chemolithotrophs are unable to oxidise :
- (A) SO_4^{2-}
 (B) SO_3^-
 (C) S^0
 (D) H_2S
64. Which of the following claims about photosystems is true ?
- (A) Photosystems are arrangements of chlorophyll and other pigments packed into membrane.
 (B) Only one photosystem is involved in anoxygenic photosynthesis.
 (C) Both (A) and (B) are true
 (D) Only (A) is accurate
65. On which surface of cell, Donnan equilibrium occurs ?
- (A) Cell Wall
 (B) Plasma membrane
 (C) Outer membrane
 (D) Nuclear membrane
66. Mesophiles are group of bacteria that grow within the temperature range of :
- (A) 0-20 degree Celsius
 (B) 25-40 degree Celsius
 (C) 45-60 degree Celsius
 (D) more than 60 degree Celsius
67. Quorum sensing autoinducers primarily produced by Gram negative bacteria :
- (A) 2-alkyl-4(1H) quinolones
 (B) dihydroxypentanedione
 (C) N-acylhomoserine lactones
 (D) All of the above
68. How many molecules of CO_2 are produced from pyruvate when NAD and FAD are reduced to NADH and FADH_2 , respectively ?
- (A) Four
 (B) Six
 (C) Three
 (D) Two

69. Hydrogen-oxidizing microorganism :
- (A) Can oxidize hydrogen gas to produce energy
 - (B) Donate electrons either to an electron transport chain or to NAD, depending on the hydrogenase
 - (C) Only (A)
 - (D) Both (A) and (B)
70. One glucose molecule is generated during the Calvin cycle from :
- (A) $6\text{CO}_2 + 18\text{ATP} + 12\text{NADPH}$
 - (B) $6\text{CO}_2 + 18\text{ATP} + 30\text{NADPH}$
 - (C) $6\text{CO}_2 + 30\text{ATP} + 12\text{NADPH}$
 - (D) $6\text{CO}_2 + 12\text{ATP}$
71. Which of the following is an anoxygenic photosynthetic organism ?
- (A) Plants
 - (B) Photosynthetic protists
 - (C) Cyanobacteria
 - (D) Green and Purple photosynthetic organism
72. Anoxygenic photosynthetic bacteria are :
- (A) Photoautotrophs
 - (B) photoheterotrophs
 - (C) Detritivores
 - (D) Omnivores
73. The process by which fat is converted to carbs in plants and some microbes is :
- (A) Acetyl CoA pathway
 - (B) Glyoxylate cycle
 - (C) Gluconeogenesis
 - (D) Krebs's cycle
74. What procedures are utilised to grow anaerobes in a lab ?
- (A) medium containing reducing agents like thioglycollate or cysteine
 - (B) nitrogen gas flushing to remove O_2
 - (C) Both (A) and (B)
 - (D) None of the above
75. Electrons from the excited chlorophyll molecules of PS-II are first accepted by :
- (A) Pheophytin
 - (B) Ferredoxin
 - (C) Cytochrome f
 - (D) Cytochrome b
76. In assimilatory nitrate reduction, nitrate is ultimately reduced to :
- (A) Ammonia
 - (B) Nitric oxide
 - (C) Nitrite
 - (D) Nitrous oxide

77. Methanogens belong to :
- (A) Eubacteria
 - (B) Dinoflagellates
 - (C) Slime moulds
 - (D) Archaeobacteria
78. High intracellular quantities of the following substances do not interfere with development or metabolism :
- (A) Potassium ions
 - (B) Mannitol, arabinol, and glycerol
 - (C) All of the above
 - (D) None of the above
79. Which of the following is required for the action of the nitrogenase enzyme ?
- (A) Light
 - (B) High input of energy
 - (C) Super oxygen radicals
 - (D) Mn^{2+}
80. Which of the following is the Complex V of ETS ?
- (A) NADH dehydrogenase
 - (B) Cytochrome aa_3
 - (C) Cytochrome bc_1
 - (D) ATP synthase
81. Fe protein of nitrogenase enzyme is a product of :
- (A) *nif*H
 - (B) *nif*D
 - (C) *nif*K
 - (D) *nif*A
82. Ammonia is assimilated through :
- (A) Glutamate
 - (B) Glutamine
 - (C) Alanine
 - (D) All of the above
83. Role of quorum sensing is to determine :
- (A) the size of the population
 - (B) population density-dependent changes in behaviour
 - (C) the speed of water flow
 - (D) the density of the population
84. Iron-transport molecules are :
- (A) Hydroxamates
 - (B) Catecholates
 - (C) Both (A) and (B)
 - (D) None of the above
85. The inhibition of alcoholic fermentation in the presence of oxygen is known as :
- (A) Pasteur effect
 - (B) Louis effect
 - (C) Homolactic fermentation
 - (D) Glycolysis

86. Instead of $-CH$ group at the third C of the side group of Chla, Chlb has :
- $-COOH$ group
 - $-CO$ group
 - $-CHO$ group
 - $-OH$ group
87. Assimilative nitrate reduction takes place in :
- Prokaryotes only
 - Prokaryotes and plants only
 - Prokaryotes, fungi and plants only
 - Prokaryotes, fungi, plants and animals
88. Rotational catalysis explains the mechanism of :
- NADH synthesis
 - Electron transport
 - ATP synthesis
 - Transport system
89. The activity of this enzyme increases when the ATP supply of a cell depletes :
- Phosphofructokinase-1
 - Hexokinase
 - Glucokinase
 - Pyruvate kinase
90. The enzyme responsible for production of pyruvate and glyceraldehyde 3-phosphate :
- 6-phosphogluconate dehydratase
 - KDPG aldolase
 - glucose-6-phosphate dehydrogenase
 - PEP kinase
91. Assimilatory sulfate reduction differs from dissimilatory sulfate reduction in :
- involves sulfate activation through the formation of phosphoadenosine 5'-phosphosulfate
 - restricted to sulfate reducing bacteria
 - Both of the above
 - None of the above
92. Methanogenic archaea have high practical significance because :
- Methane is a greenhouse gas because it absorbs infrared light.
 - A major impact on iron corrosion.
 - Methanogenesis can potentially pose a threat to the environment.
 - All of the above

93. Workthroughs of N-Acyl L-Homoserine Lactones :
- (A) Cytoplasmic receptor binding to cause altered gene expression.
 - (B) Two-component histidine kinase receptor detection.
 - (C) Both of the above
 - (D) None of the above
94. Most fungi prefer pH range :
- (A) pH 4 to 6
 - (B) pH 7 to 9
 - (C) pH 0 to 5
 - (D) pH 8 to 11
95. Glycolysis can occur in
- (A) anaerobic cells
 - (B) aerobic cells
 - (C) Neither aerobic and anaerobic cells
 - (D) Both aerobic and anaerobic cells
96. Which among the following is not an ammonia-oxidizing bacteria ?
- (A) *Nitrospira gracilis*
 - (B) *Nitrosococcus oceanus*
 - (C) *Nitrosomonas europaea*
 - (D) *Nitrosovibrio tenuis*
97. PEP-PTS is an example of :
- (A) Group translocation
 - (B) Primary active transport
 - (B) Secondary active transport
 - (D) Facilitated diffusion
98. Which cofactor involves in methanogenesis ?
- (A) NAD
 - (B) Fe⁺⁺
 - (C) H₄MPT
 - (D) All of the above
99. The statement correct about rTCA cycle :
- (A) Key enzymes are ATP citrate lyase, α-ketoglutarate synthase, fumarate reductase
 - (B) It is a reductive pathway.
 - (C) Pathway present in Archaea
 - (D) All of the above
100. The order of three steps of Calvin cycle is :
- (A) Regeneration-Carboxylation-Reduction
 - (B) Carboxylation-Regeneration-Reduction
 - (C) Carboxylation-Reduction-Regeneration
 - (D) Reduction-Regeneration-Carboxylation

4. Four alternative answers are mentioned for each question as—A, B, C & D in the booklet. The candidate has to choose the correct answer and mark the same in the OMR Answer-Sheet as per the direction :

Example :

Question :

Q. 1 (A) ● (C) (D)

Q. 2 (A) (B) ● (D)

Q. 3 (A) ● (C) (D)

Illegible answers with cutting and over-writing or half filled circle will be cancelled.

5. Each question carries equal marks. Marks will be awarded according to the number of correct answers you have.
6. 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.
7. Before writing anything on the OMR Answer Sheet, all the instructions given in it should be read carefully.
8. After the completion of the examination candidates should leave the examination hall only after providing their OMR Answer Sheet to the invigilator. Candidate can carry their Question Booklet.
9. There will be no negative marking.
10. Rough work, if any, should be done on the blank pages provided for the purpose in the booklet.
11. To bring and use of log-book, calculator, pager and cellular phone in examination hall is prohibited.
12. 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.

4. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार सम्भावित उत्तर—A, B, C एवं D हैं। परीक्षार्थी को उन चारों विकल्पों में से सही उत्तर छँटना है। उत्तर को OMR आन्सर-शीट में सम्बन्धित प्रश्न संख्या में निम्न प्रकार भरना है :

उदाहरण :

प्रश्न :

प्रश्न 1 (A) ● (C) (D)

प्रश्न 2 (A) (B) ● (D)

प्रश्न 3 (A) ● (C) (D)

अपठनीय उत्तर या ऐसे उत्तर जिन्हें काटा या बदला गया है, या गोले में आधा भरकर दिया गया, उन्हें निरस्त कर दिया जाएगा।

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

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