

FIRST REVISION TEST - 2025

Standard - XI

BIOLOGY

PART - I - BIO - BOTANY

Time: 3.00 hrs.

Reg.No.

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Marks: 70

Marks: 35

SECTION - I

8×1=8

I. Choose the correct Answer.

1. Statement I : In lower fungi the hypha is aseptate, multinucleate and is known as coenocytic mycelium

Statement II: In higher fungi a septum is present between the cells of the hyphae .

- a) Statement I is correct and Statement II is incorrect
 b) Statement I is incorrect and Statement II is correct
 c) Both Statement I and II are correct
 d) Both Statement I and II are incorrect
2. Phylloclade is characteristic adaptation of Xerophytes. Phylloclade also called as Cladophyll. Example of this Cladophyll is
 a) Opuntia b) Lathyrus c) Pothos d) Dioscorea
3. Flowers are Zygomorphic in
 a) Ceropogia b) Thevetia c) Datura d) Solanum
4. In S phase of the cell cycle
 a) Amount of DNA doubles in each cell b) Amount of DNA remains same in each cell
 c) Chromosome number is increased d) Amount of DNA is reduced to half in each cell.
5. In a B-DNA number of base pairs per complete turn is
 a) 10 b) 11 c) 12 d) 13
6. In a fully turgid cell
 a) DPD = 10 atm; OP = 5 atm; TP = 10 atm
 b) DPD = 0 atm; OP = 10 atm; TP = 10 atm
 c) DPD = 0 atm; OP = 5 atm; TP = 10 atm
 d) DPD = 20 atm; OP = 20 atm; TP = 10 atm
7. For every CO₂ molecule entering the C₃ cycle, the number of ATP & NADPH required
 a) 2ATP + 2 NADPH b) 2ATP + 3 NADPH
 c) 3ATP + 2 NADPH d) 3ATP + 3NADPH
8. Select the correctly matched one :
- | | | |
|------------------------|---|------------------|
| A) Human Urine | - | Auxin - B |
| B) Corn gram oil | - | GA ₃ |
| C) Fungus | - | Abscisic acid II |
| D) Herring fish sperm | - | Kinitin |
| E) Unripe Maize grains | - | Auxin A |
| F) Young cotton bolls | - | Zeatin |
- a) A - iii, B - iv, C - v, D - vi, E - i, F - ii b) A - v, B - i, C - ii, D - iv, E - vi, F - iii
 c) A - iii, B - v, C - vi, D - i, E - ii, F - iv d) A - ii, B - iii, C - v, D - vi, E - iv, F - i

SECTION - II

II. Answer any four questions:

4×2=8

9. Give the technical terms of the following: a) A Sterile Stamen b) Stamens are attached to the Petals
10. Write the floral formula of Allium Cepa.
11. Mention two characters shared by Angiosperms and gymnosperms
12. Bring out the significance of Transmission Electron Microscope.
13. What are Sieve tubes?
14. Respiratory quotient is zero in succulent plants. Why?

SECTION - III

III. Answer any three questions. Question No.19 is compulsory:

3×3=9

15. Why do farmers plant leguminous crops in crop rotations / mixed cropping?
16. Compare Sympodial branching with monopodial branching.
17. Differentiate Cytokinesis in plant cells and animal cells.
18. What is natural auxins? Give an example.
19. Draw a neat diagram of a Chloroplast with parts.

SECTION - IV

III. Answer all the questions:

2×5=10

20. a) Difference between Gram Positive and Gram Negative Bacteria.

(OR)

b) Write the Botanical description of Datura metel.

21. a) Write the theory of K^+ transport with diagram.

(OR)

b) Write about Glycolysis.

PART - II - BIO - ZOOLOGY**Marks: 35****SECTION - I****8×1=8****Answer all the questions:**

1. Pneumatic bones are seen in
 - a) Mammalia
 - b) Aves
 - c) Reptilia
 - d) Sponges
2. Prevention of substances from leaking across the tissue is provided by
 - a) Tight junction
 - b) Adhering junction
 - c) Gap junction
 - d) Elastic junction
3. The type of vision in Cockroach is
 - a) Three dimensional
 - b) Two dimensional
 - c) Mosaic
 - d) Cockroach do not have vision
4. Which of the following best describes the process of gas exchange in the lungs?
 - a) Air moves in and out of the alveoli during breathing
 - b) Carbon dioxide diffuses from deoxygenated blood in capillaries into the alveolar air
 - c) Oxygen and carbon dioxide diffuse down their concentration gradients between blood and alveolar air
 - d) Oxygen diffuses from alveolar air into deoxygenated blood
5. Normal blood pressure in man is about
 - a) 110/70 mm Hg
 - b) 130/90 mm Hg
 - c) 140/80 mm Hg
 - d) 120/80 mm Hg
6. The functional unit of a muscle fibre is
 - a) Sarcomere
 - b) Sarcoplasm
 - c) Myosin
 - d) Actin
7. The half life period of insulin (in plasma) is
 - a) 3 minutes
 - b) 4 minutes
 - c) 5 minutes
 - d) 6 minutes
8. Isinglass is used in
 - a) Preparation
 - b) Clearing of wines.
 - c) Distillation of wines
 - d) Preservation of wines

SECTION - II

Answer any four of the following questions :

4×2=8

9. What is the role of Charles Darwin in relation to concept of species?
10. What are the components of blood in frog?
11. What is meant by Erythropoietin? Mention its role?
12. Write any two symptoms of Marasmus disease?
13. Draw a structure of alveoli with a neat labelled diagram?
14. Cornea transplant in humans is almost never rejected. State the reason.

SECTION - III

Answer any three of the following questions. Q.No.19 is compulsory.

3×3=9

15. Compare Schizocoelom with enterocoelom?
16. Write an economic importance of frog?
17. Name the three main hormones involved in the regulation of the renal function?
18. Name the layers of adrenal cortex and mention their secretions?
19. What are the advantages of artificial insemination?

SECTION - IV

Answer the following questions :

2×5=10

20. a) What is an epithelium? Enumerate the characteristic features of different epithelia?
(OR)
- b) Explain the Exchange of Gases at the Alveolus and the Tissue with blood and transport of Oxygen and Carbondioxide?
21. a) Describe the origin and conduction of heart beat with a neat labelled diagram?
(OR)
- b) Discuss the various techniques adopted in cattle breeding?