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Tamilnadu Board

Mid-Term Exam Question Paper

2024



V11Bio

Virudhunagar District

Common First Mid Term Test - 2024

Standard 11

BIOLOGY

Time: 1.30 Hrs. Marks: 50

PART - I [BIO-BOTANY] Marks: 25

Section - I

Answer all the questions: 5×1=5

1) The correct statement regarding Blue green algae is
   a) presence of cellulose in cell wall
   b) absence of mucilage around the thallus
   c) lack of motile structures
   d) presence of floridian starch
2) Which of the following represents gametophytic generation in pteridophytes?
   a) Cone b) Thallus c) Rhizophore d) Prothallus
3) Bryophyllum, Dioscorea are example for
   a) Foliar bud, Apical bud b) Foliar bud, Cauline bud
   c) Foliar bud, Adventitious bud d) Cauline bud, Adventitious bud
4) **Match and choose the correct sequence:**
   1. Green sulphur bacteria - i) Chromatium
   2. Saprophytic bacteria - ii) Ferrobacillus
   3. Iron bacteria - iii) Chlorobium
   4. Purple sulphur bacteria - iv) Bacillus mycoides

   a) 1-iii, 2-iv, 3-ii, 4-i b) 1-iv, 2-iii, 3-ii, 4-i
   c) 1-iv, 2-iii, 3-ii, 4-i d) 1-iv, 2-iii, 3-i, 4-ii
5) **Choose the wrong pair:**
   a) Runner - Oxalis
   b) Phylloclade - Phyllocactus
   c) Offset - Chrysanthemum
   d) Corm - Colacasia

Section - II

Answer ANY THREE of the following: 3×2=6

6) How root climbers differ from stem climbers?
7) What do you infer from the term "pycnoxylic"?
8) What are stromatolites?
9) Why are Bryophytes called non-vascular cryptogams?
10) Write the similarities and differences between phylloclade and cladode.

Section - III

Answer ANY THREE of the following: 3×3=9

11) Write the merits of five kingdom classification.
12) Mention any three characters shared by gymnosperms and angiosperms.
13) What are the primary functions of leaf?
14) Distinguish between Eusporangiate and Leptosporangiate.
15) Write any three general characters of Lichens.

Section - IV

Answer in detail: 1×5=5

16) a) What is protostele? Explain the types.

(OR)

b) Explain Taproot modifications.

PART - II [BIO-ZOOLOGY] Marks: 25

Section - I

Note: i) Answer all the questions. **5×1=5**

ii) Choose the most appropriate answers from the given four alternatives and write the option code and the corresponding answers.

1) Prevention of substances from leaking across the tissue is provided by
   a) Tight junction b) Adhering junction
   c) Gap junction d) Elastic junction

2) Which of the following is correctly matched?
   a) Physalia - Portugese men of war
   b) Pennetula - Sea fan
   c) Adamsia - Sea pen
   d) Gorgonia - Sea anemone

3) Cladogram considers the following characters
   a) Physiological and Biochemical b) Evolutionary and Phylogenic
   c) Taxnomic and Systemetic d) None of the above

4) What type of fibres are found in connective tissue matrix?
   a) Collagen b) Arcoler c) Cartilage d) Tubuler

5) **Match the following columns and select the correct option:**

	Column I		**Column II**
A)	Pila	-	i) Devil fish
B)	Dentalium	-	ii) Chiton
C)	Chaetopleura	-	iii) Apple snail
D)	Octopus	-	iv) Tusk shell

   a) A-ii B-i C-iii D-iv b) A-iii B-iv C-ii D-i
   c) A-ii B-iv C-i D-iii d) A-i B-ii C-iii D-iv

Section - II

Note: Answer any three of the following questions. **3×2=6**

6) What are flame cells?
7) Differentiate between Probiotics and Pathogenic bacteria.
8) Same epithelia are pseudostratified? What does this mean?
9) Why are spongin and spicules important to a sponge?
10) Why mule is sterile in nature?

Section - III

Note: Answer any three of the following questions. **3×3=9**

11) Why blood considered as a typical connective tissue?
12) What is the role of Charles Darwing in relation to concept of species?
13) List three features that characterise bony fishes.
14) Differentiate white adipose tissue from brown adipose tissue.
15) List the functions of air bladder in fishes.

Section - IV

Note: Answer the following questions. **1×5=5**

16) Comparison of chordates and non-chordates.

(OR)

Write about the classical taxonomical tools.

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