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PCT IN ZOOLOGY

Cuddalore, District

## FIRST MID TERM TEST - 2024

### Standard - XI

Time : 1.30 hrs

**BIOLOGY**

**Marks: 50**

Bio-Botany

**Marks: 25**

Part - A

I. Answer all the questions.

Choose the correct answer and write the option code: **5×1=5**

- 1) \_\_\_\_\_ A prokaryote takes a joy ride on Polar bear.
  - a) Aphanocapsa montana
  - b) Methanobacterium
  - c) Streptomyces
  - d) Mycoplasma mycoides
- 2) The dye present in litmus paper used as acid base indicator in the laboratories is obtained from \_\_\_\_\_.
  - a) Cladonia rangiferina
  - b) Trycodesmium erythrayen
  - c) Chlamydomonos nivalis
  - d) Rocella montagnei
- 3) Which of the following represents gametophytic generation in Pteridophytes?
  - a) Prothallus
  - b) Thallus
  - c) Cone
  - d) Rhizophore
- 4) Select the mismatch pair
  - a) Musa - Unicostate
  - b) Lablab - Trifoliolate
  - c) Acalypha - Leaf mosaic
  - d) Allamanda - Ternate Phyllotaxy
- 5) Which one of the following algae is used for sewage treatment
  - a) Laminaria
  - b) Ascophyllum
  - c) Chlorella
  - d) Fucus

Part - B

II. Answer any three questions:-

**3×2=6**

- 6) Differentiate homoiomerous and heteromerous lichens.
- 7) List out four types of Ascocarps.
- 8) What is Nectostele? Give example.
- 9) How root climbers differ from stem climbers.
- 10) Write any two primary functions of the stem.

Part - C

III. Answer any three questions. Q.No. 13 is compulsory: **3×3=9**

- 11) Write any three general account on lichens.
- 12) Draw and label the parts of regions of root.
- 13) Give the reasons for the success and dominance of Vascular Plants.
- 14) Do you think shape of chloroplast is unique for algae. Justify your answer?
- 15) Differentiate between Gram negative bacteria and Gram positive bacteria.

Part - D

IV. Answer in detail:-

**1×5=5**

- 16) Briefly discuss on five kingdom classification. **[or]**  
Write the difference between Gymnosperms and Angiosperms.

(2)  
Bio-Zoology  
Part - A

XI BIOLOGY  
Marks: 25

I. Answer all the questions.

Choose the correct answer and write the option code:  $5 \times 1 = 5$

- 1) Who coined the term biodiversity  
a) Walter Rosen    b) Aristotle    c) John Ray    d) Carolus Linnaeus
- 2) The excretory cells that are found in Platyhelminthes  
a) Nephridia    b) Flame cells    c) Solenocytes    d) Green glands
- 3) Pneumatic bones are seen in  
a) Mammalia    b) Reptiles    c) Aves    d) Sponges
- 4) The ciliated epithelium lines the  
a) skin    b) Digestive tract    c) Gall bladder    d) Trachea
- 5) Sexually earthworms are  
a) Sexes are separate    b) Hermaphroditic but not self fertilizing  
c) Hermaphroditic and self-fertilizing    d) Parthenogenic

Part - B

II. Answer any three of the following questions:-

$3 \times 2 = 6$

- 6) Write a short note on extremophiles
- 7) What are flame cells?
- 8) What is the function of white Adipose tissue?
- 9) In which phyla is the larva trochopore found?
- 10) What are earthworm casts?

Part - C

III. Answer any three of the following questions.

Question No.14 is compulsory:

$3 \times 3 = 9$

- 11) Why mule is sterile in nature?
- 12) List three features that characterise bony fishes?
- 13) Some epithelia are pseudostratified. What does this mean.
- 14) Why blood is considered as a typical connective tissue.
- 15) What are three types of nephridia of Earthworms?

Part - D

IV. Answer any one of the following questions in detail:  $1 \times 5 = 5$

- 16) Compare chordates and non-chordates  
List out the rules of Nomenclature.

[or]

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