

FML

**FIRST MID TERM TEST - 2024****11** - Std**BIOLOGY**

Time : 1.30 Hrs.

Salem

Marks : 40

**Bio-Botany****I Answer all the questions.****Choose the correct answer and write the option code :-**  $5 \times 1 = 5$ 

- The haploid number of Chromosome for an angiosperm is 14, the number of chromosome in its endosperm would be  
a) 7                      b) 14                      c) 42                      d) 28
- Bryophyllum and Dioscorea are example for  
a) Foliar bud, apical bud                      b) Foliar bud, Cauline bud  
c) Cauline bud, apical bud                      d) Cauline bud, foliar bud
- Taq polymerase a key enzyme for polymerase chain reaction (PCR) is obtained from  
a) Pseudomonas putida                      b) Thermus aquaticus  
c) Methanobacterium                      d) Agrobacterium tumefaciens
- Development of sporangium from group of initials is called  
a) Leptosporangiate                      b) Heterosporangiate  
c) Eusporangiate                      d) Homosporangiate
- Assertion (A) :** Corolla is usually brightly coloured.  
**Reason (R) :** Corolla helps to display the flower and attracts the pollinators.  
a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A)  
b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A)  
c) Assertion (A) is true but reason (R) is false.  
d) Assertion (A) is false but reason (R) is true

**II Answer any two of the following questions :-** $2 \times 2 = 4$ 

- What do you infer from the term Pycnoxylic?
- Draw the structure of leaf and mark the parts.
- What is capnophilic bacteria? Give an example.
- What is hypanthium?

**III Answer any two of the following questions.****Q.No. 12 is compulsory :-** $2 \times 3 = 6$ 

- Do you agree with the statement 'Bryophytes need water for fertilization? Justify your answer.
- Differentiate pinnate uncostate with palmate multicostate venation.
- Write short notes on Cyathium inflorescence.

**IV Answer all the questions :-** $1 \times 5 = 5$ 

- a) Differentiate the gram positive bacteria with the gram negative bacteria.  
**(OR)** b) Explain the different types of fleshy fruit with suitable example.

**Bio-Zoology**  
**SECTION - A**

**I Choose the correct answer.**

**1 X 5 = 5**

1. What taxonomic aid gives comprehensive information about a taxon?  
a. Taxonomic Key    b. Herbarium    c. Flora    d. Monograph
2. Find out the name of the picture given below.  
a. Limulus                      b. Palamnaeus  
c. Eupagurus                  d. Musca



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

**4. Match it**

**Column - X**

**Column - Y**

- |                    |   |                                     |
|--------------------|---|-------------------------------------|
| A) Small intestine | - | I) Largest factory                  |
| B) Pancreas        | - | II) Absorption of Water             |
| C) Liver           | - | III) Carrying electrolytic solution |
| D) Colon           | - | IV) Digestion and absorption        |

- |         |      |       |       |          |       |      |      |
|---------|------|-------|-------|----------|-------|------|------|
| 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-IV  | B-III | C-I  | D-II |

5. Buccopharyngeal respiration in frog  
a. Is increased when nostrils are closed  
b. Stops when there is pulmonary respiration  
c. Is increased when it is catching fly  
d. Stops when mouth is opened.

**SECTION - B**

**II Give very short answer.**

**2 X 2 = 4**

6. Draw a schematic diagram of the human digestive system.
7. Comment on the functions of alary muscles?
8. Some epithelia are pseudostratified. What does this mean?
9. Why are flatworms called acoelomates?

**SECTION - C**

**III Give short answer (Question number 12 is compulsory)**

**2 X 3 = 6**

10. List three features that characterise bony fishes.
11. Write the classification of connective tissue and their functions
12. Differentiate between peristomium and prostomium in earthworm.

**SECTION - D**

**III Describe the following question briefly.**

**1 X 5 = 5**

12. Write about molecular taxonomic tools

**(OR)**

Write about Constipation and GallStones.

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