

TRICHY

# COMMON FIRST MID TERM TEST - JULY 2019

STANDARD - XI

Reg. No. 

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Time: 1.30 Hrs.

**BIOLOGY**

Marks: 50

**BIO-BOTANY**

**Marks: 25**  
**8×1=8**

**I. Answer all the questions:**

- 1) Identify the Archaeobacterium
  - a) Acetobacter
  - b) Erwinia
  - c) Treponema
  - d) Methanobacterium
- 2) Which among the bacteria breakdown hydrocarbons?
  - a) Pseudomonas putida
  - b) Lactobacillus
  - c) Bifido bacterium
  - d) Nitrosomonas
- 3) Identify the wrong pair.
  - a) Sagittaria - Heterophylly
  - b) Begonia - Leaf mosaic
  - c) Lablab - Trifoliolate palmately compound leaf
  - d) Allamanda - Ternate
- 4) The diploid number of chromosomes for an angiosperm is 12, the number of chromosome in its endosperm would be
  - a) 6
  - b) 18
  - c) 12
  - d) 24
- 5) Example for negatively geotropic roots.
  - a) Ipomoea, Dahila
  - b) Asparagus, Ruellia
  - c) Vitis, Portulaca
  - d) Avicennia, Rhizophora
- 6) **Assertion (A)** : Sex pili are special type of pili in bacteria.  
**Reason (R)** : It helps in conjugation.
  - a) A and R are right.
  - b) A and R are wrong.
  - c) A is wrong, R is right.
  - d) A is right, R is wrong.
- 7) When the root is thick and fleshy, but does not take a definite shape, it said to be
  - a) Nodulose root
  - b) Tubercular root
  - c) Monoliform root
  - d) Fasciculated root
- 8) Endosperm in Gymnosperm is formed
  - a) At the time of fertilization
  - b) Before fertilization
  - c) After fertilization
  - d) Along with the development of embryo

**II. Answer any three of the following:**

**3×2=6**

- 9) Mention any two living characters of viruses.
- 10) Write any four human diseases caused by bacteria.
- 11) What is plectostele? Give an example.
- 12) Differentiate Gymnosperms and Angiosperms with two characters.
- 13) Write any two primary functions of leaf.

**III. Answer any two of the following:**

**2×3=6**

- 14) Explain the term 'Virion'.
- 15) Differentiate Homoiomerous and Heteromerous lichens.
- 16) Draw and label the regions of root.
- 17) Compare sympodial branching with monopodial branching.

**IV. Answer any one of the following:**

**1×5=5**

- 18) a) Describe the various steps in Gram's staining procedure.

**(OR)**

- b) Explain Tap root modifications with diagrams.

**I. Choose the correct answer:**

- 1) Which taxonomic aid gives comprehensive information about a taxon?  
a) Taxonomic key    b) Herbarium    c) Flora    d) Monograph
- 2) Limbless amphibians is  
a) Ichthyophis    b) Hyla    c) Rana    d) Salamander
- 3) Which of the following is correctly matched?  
a) Physalia - Portuguese man of war  
b) Pennatula - Sea fan  
c) Adamsia - Sea pen  
d) Gorgonia - Sea anemone
- 4) Non-shivering thermogenesis in neonates produce heat through  
a) White fat    b) Brown fat    c) Yellow fat    d) Colourless fat
- 5) Which of the following is not a connective tissue disease?  
a) Danlos syndrome    b) Stickler syndrome  
c) Sjogren's syndrome    d) Parkinson's disease
- 6) Find out the wrong match:  
a) Cyclostomata - Petromyson  
b) Agnatha - Jawless Animals  
c) Tetrapods - Reptiles  
d) Chondrichthyes - Pterophyllum
- 7) Which of the following animal group not found in freshwater?  
a) Mollusca    b) Sponges    c) Cnidaria    d) Echinodermata
- 8) "Comb plates" found in  
a) Echinodermata    b) Ctenophora    c) Platyhelminthes    d) Mollusca

**II. Answer any three of the following:**

- 9) Write any four characteristic features of family Felidae. 3×2=6
- 10) In which phyla is the larva trochophore found?
- 11) Ambulacral system found in which phylum and add note on its functions.
- 12) Classify exocrine glands based on secretion.
- 13) Mention the types of muscle tissues with examples.

**III. Answer any two of the following:**

- 14) Draw and label the parts of a nerve cell. 2×3=6
- 15) List out any six characteristics of mammals.
- 16) Write the functions of the following cells.  
(1) Cnidoblast cells    (2) Lasso cells    (3) Flame cells
- 17) What is meant by extremophiles? Give examples.

**IV. Answer the following:**

- 18) Differentiate: Chordates and Non-Chordates 1×5=5

**(OR)**

What is an epithelium? Enumerate the characteristic features of different epithelia.

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