

FIRST QUARTERLY TEST AUGUST 2025

CLASS : I PUC

SUBJECT : BIOLOGY (36)

Max. Marks : 35

TIME : 1 Hour 30 Mins.

Instructions :

1. This question paper consists of four Parts A, B, C, D.
2. Part-A consists of I and II and Part-D consists two parts Section-I and II.
3. All the parts are compulsory.
4. Draw diagrams wherever necessary. Unlabeled diagrams do not carry any marks.

PART-A

I Select the correct alternative from the choices given below : 1x7=7

- 1) Given below are the scientific names. Identify the correctly written group.
a) *Mangifera indica*, *Home sapiens* b) *Mangifera indica*, *Homo sapiens*
c) *Mangifera Indica*, *Homo Sapiens* d) *mangifera indica*, *homo sapiens*
- 2) The order carnivora includes families like
a) *Panthera* and *Felis* b) *Solanaceae* and *Poaceae*
c) *Hominidae* and *Muscidae* d) *Felidae* and *Canidae*
- 3) Statement 1 - Diatoms belong to the group dinoflagellates
Statement 2 - Diatomaceous earth is used in polishing filtration of oils and syrups.
a) Both the statements are true
b) Statement 1 is false and Statement 2 is true
c) Statement 1 is true and Statement 2 is false
d) Both the statements are false
- 4) The genetic material of virus,
a) DNA or RNA b) Always only DNA c) Always only RNA d) Both DNA and RNA
- 5) The stored food in Rhodophyceae
a) Starch b) Mannitol c) Floridean starch d) Laminarin
- 6) Arthropoda bears
a) Body with pores and canals in walls b) Often worm shaped, elongated
c) external skeleton of shell usually present d) exoskeleton of cuticle, jointed appendages
- 7) The function of root cap is -
a) protection of tender apex while making its way through the soil
b) absorption of water and minerals from the soil
c) to control meristematic activity
d) helps in differentiation and maturation

II Fill in the blanks by choosing the appropriate word from those given below: 1x3=3
(Bioluminescence, heterocysts, choanocytes, gemmae)

- 8) Some of the organisms of eubacteria can fix atmospheric nitrogen in specialised cells called _____.
- 9) In liverworts, asexual reproduction may takes place by the formation of specialised structures called _____.
- 10) _____ is the property of a living organism to emit light.

(P.T.O)

PART-B

III Answer any THREE of the following questions in 3-5 sentences each, wherever applicable : **2x3=6**

- 11) Write the taxonomical categories in hierarchical arrangement following the ascending order.
- 12) Write any two rules of binomial nomenclature.
- 13) List the major groups of protozoans.
- 14) Write one economic and one ecological importance of bryophytes.
- 15) Differentiate open and closed type of circulation with an example for each.

PART-C

IV Answer any THREE of the following questions in 40-80 words each, wherever applicable : **3x3=9**

- 16) List the steps involved in sexual cycle of kingdom Fungi.
- 17) Define the following terms - a) Protonema b) Prothallus c) Mycorrhiza.
- 18) What are the modifications that are observed in birds that help them to fly ?
- 19) Write any three characteristics of non-chordates.
- 20) Explain the three types of phyllotaxy with an example for each.

PART-D

SECTION-I

V Answer any ONE of the following questions in 200-250 words each, wherever applicable : **5x1=5**

- 21) Write the general characteristics of algae.
- 22) List the salient features of gymnosperms.

SECTION-II

VI Answer any ONE of the following questions in 200-250 words each, wherever applicable : <https://www.karnatakaboard.com> **5x1=5**

- 23) Tabulate the differences between chondrichthyes and osteichthyes with examples.
- 24) Assign the following to respective phyla -
a) Limulus b) Octopus c) Ancylostoma d) Spongilla e) Cucumaria.
