

12 - Std**SECOND MID TERM TEST - 2023**

Time : 1.30 Hrs

BIOLOGY

Marks : 35

Note: i) Answer all the questions.**2×1=2**

- 1) Carbon stored in the atmosphere and ocean is called _____.
 a) Brown carbon b) Black carbon c) Grey carbon d) Blue carbon
- 3) _____ species are free living fungi that are common in soil and root ecosystem.
 a) Beauveria b) Trichoderma c) Rhizactonia solani d) Azola

Answer ANY TWO of the following: [Q.No. 4 is compulsory question]

- 4) What are ecological equivalents? Give one example. **2×2=4**
- 5) Productivity of profundal zone will be low. Why?
- 6) What is ozone hole?

Answer any two questions:**2×3=6**

- 7) What is Albedo effect and write their effects?
- 8) What is Remote sensing? Write its specific uses.
- 9) What are the objectives of plant breeding?

Answer the following:**1×5=5**

- 10) How does anemochory differ from zoochory? **(OR)**
 Shape of pyramid in a particular ecosystem is always different in shape. Explain with example, and a neat diagram.

PART - II [BIO-ZOOLOGY]**Marks: 18****Note: Answer all the questions.****3×1=3**

- 1) Select the correct statement about Human Insulin
 a) The human insulin is synthesized by the α -cell of islets of Langerhans in the pancreas b) Insulin controls the level of oxygen in blood.
 c) Deficiency of insulin leads Hypertension.
 d) Insulin controls the levels of glucose in blood.
- 2) The correct order of steps in polymerase chain reaction is
 a) Denaturation, Extension, Annealing b) Annealing, Extension, Denaturation
 c) Extension, Denaturation, Annealing d) Denaturation, Annealing, Extension
- 3) Which of the following is stenotherms _____.
 a) Fish b) Cat c) Dog d) Tiger

Note: Answer any two of the following questions.**2×2=4**

- 4) What is Bergman's rule?
- 5) What is Red data book?
- 6) Expand: (i) CFC (ii) PAN

III. Answer ANY TWO of the following: (Q.No. 9 is compulsory)**2×3=6**

- 7) What is Acclimation?
- 8) Explain Hibernation and Aestivation with examples.
- 9) Why *saccharomyces cerevisiae* is suitable for the production of interferons?

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

- 10) a) What are recombinant vaccines? Explain the types. **(OR)**
 b) What are the difference between T selected and K - selected species?