

SECOND MID TERM TEST - 2024

Standard - XII

Time : 1.30 hrs

BIOLOGY

Marks: 50

Bio-Botany

Marks: 25

Section - I

I. Answer all the questions:

5×1=5

- 1) Pedogenesis refers to
 - a) Fossils
 - b) Water
 - c) Population
 - d) Soil
- 2) Size of the Sandy soil
 - a) Less than 0.002mm
 - b) 0.002 to 0.02mm
 - c) 0.002 to 2 mm
 - d) 0.2 to 2 mm
- 3) Net Primary productivity is
 - a) $NPP = GPP - \text{Respiration}$
 - b) $GPP = NPP - \text{Respiration}$
 - c) $\text{Respiration} = NPP - GPP$
 - d) $NPP = GPP + \text{Respiration}$
- 4) Solar energy used by green plants for photosynthesis is only
 - a) 2-8%
 - b) 2-10%
 - c) 3-10%
 - d) 2-9%
- 5) The unit for measuring ozone thickness
 - a) Joule
 - b) kilos
 - c) Dobson
 - d) Watt

Section - II

II. Answer any three of the following:-

3×2=6

- 6) State any two effects of deforestation.
- 7) Explain Ex-situ conservation.
- 8) Construct the food chain with the following data and what is the type of food chain.
Earthworm, Hawk, Black bird, Fallen leaves.
- 9) What is Myrmecophily?
- 10) What are true xerophytes.

Section - III

III. Answer any three of the following. Questions No.14 is compulsory 3×3=9

- 11) What are Rhytidome.
- 12) Explain 10 percent law with suitable examples.
- 13) Differentiate between primary and secondary succession.
- 14) How do sacred groves help in the conservation of biodiversity?
- 15) State the effects of Global Warming on Plants.

Section - IV

IV. Answer the following question:-

1×5=5

- 16) a) Explain different types of hydrophytes with examples. **(OR)**
b) How the pond ecosystem is making itself self sufficient and self regulating.

(2)
Bio-Zoology
Section - I

XII BIOLOGY
Marks: 25

I. Answer all the questions.

5×1=5

- 1) Who introduced the term Biodiversity?
 - a) Edward Wilson
 - b) Walter Rosen
 - c) Norman Myers
 - d) Alice Norman
- 2) Assertion: The environmental conditions of the tropis are favourable for speciation and diversity of organisms.
 Reason: The climate seasons, temperature, humidity and photoperiod are more or less stable and congenial
 - a) Both Assertion and Reason are true and Reason explains Assertion correctly
 - b) Both Assertion and Reason are true and Reason is not the correct explanation of Assertion
 - c) Assertion is true, but Reason is false
 - d) Both Assertion and Reason are false.
- 3) How many amino acids are arranged in the two chains of Insulin?
 - a) Chain A has 12 and Chain B has 13 amino acids
 - b) Chain A has 21 and Chain B has 30 amino acids
 - c) Chain A has 20 and Chain B has 30 amino acids
 - d) Chain A has 12 and Chain B has 20 amino acids
- 4) The relationship between sucker fish and shark is _____
 - a) competition
 - b) commensalism
 - c) predation
 - d) Parasitism
- 5) Which one of the animal is example for hibernation.
 - a) fishes
 - b) snails
 - c) Bear
 - d) Dogs

Section - II

II. Answer any three of the following:-

3×2=6

- 6) What is Humulin?
- 7) What are transgenic animals? Give examples?
- 8) Define Mortality?
- 9) Write a note on WWF.
- 10) "Amazon forest is considered to be the lungs of the planet" - Justify this statement.

Section - III

III. Answer any three of the following and Question No.14 is compulsory. 3×3=9

- 11) Differentiate between somatic cell gene therapy and germ line gene therapy.
- 12) "Red data Book"? - What do you know about it?
- 13) Explain Bergamm's rule.
- 14) Describe population Age distribution.
- 15) Write the types of aquatic biomes of earth.

Section - IV

IV. Answer the following question:

1×5=5

- 16) a) List the adaptations seen in terrestrial animals.
- b) Explain the steps which are involved in PCR.

(OR)

Rampet - DIST

[Signature]