

SECOND MID TERM TEST - 2023

Standard - XII

Reg No

BIOLOGY

Marks: 50

Time: 1.30 hrs.

BIO - BOTANY

Marks: 25

PART - A

I. Choose the correct answer:

5×1=5

1. The best pH range of the soil for cultivation of crop plant is
a) 5.5 to 6.8 b) 5.0 to 6.0 c) 6.5 to 7.5 d) 7.0 to 9.0
2. Plant developing in an barren area -
a) Allogenic succession b) Autotrophic succession
c) Secondary succession d) Primary succession
3. Depletion of which gas in the atmosphere can lead to an incidence of skin cancer?
a) Ammonia b) Methane c) Nitrous Oxide d) Ozone
4. Ecology is the study of an individual species is called
i) community ecology ii) Autecology iii) Species ecology iv) Synecology
a) i only b) ii only c) i and iv only d) ii and iii only
5. Which of the following is not a sedimentary cycle _____
a) Nitrogen cycle b) Phosphorous cycle
c) Sulphur cycle d) Calcium Cycle

PART - B

II. Answer any three questions:

3×2=6

6. What is seed ball?
7. What is thermal stratification? Mention their types.
8. Biogeochemical cycle - Define.
9. What is Green house effect?
10. Write some plants are found in sub - alpine forest?

PART - C

III. Answer any three questions. (Compulsory Q.No.13.)

3×3=9

11. What is Albedo effect and write their effects?
12. What is 'Blue Carbon ecosystem'?
13. What is food web? Write its significance?
14. What are strategies to deal with Global warming.
15. Define Phytoremediation?

PART - D

IV. Write the detailed Answers:

1×5=5

16. a) Explain different types of Hydrophytes with examples.

(OR)

- b) What is Ten Percent Law? Explain it with diagram.

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BIO - ZOOLOGY

XII - BIOLOGY

Marks: 25

PART - A

I. Choose the correct answer :

5×1=5

1. The relationship between sucker fish and shark is _____.
a) competition b) commensalism c) Predation d) Parasitism
2. The first clinical gene therapy was done for _____.
a) AIDS b) Cancer c) Cystic fibrosis d) SCID
3. The organization which published the red list of species is _____.
a) WWF b) IUCN c) ZSI d) UNEP
4. PCR proceeds in three distinct steps governed by temperature in the order of _____.
a) denaturation, annealing, synthesis b) synthesis, annealing, denaturation
c) annealing, synthesis, denaturation d) denaturation, synthesis, annealing
5. Organisms which can survive wide range of temperature are called _____.
a) ectotherms b) eurytherms c) endotherms d) stenotherms

PART - B

II. Answer any three of the following:

3×2=6

6. What are transgenic animals? Give examples.
7. What is soil permeability?
8. Differentiate natality and mortality.
9. What are the 3 levels of biodiversity?
10. Mention any 2 hotspots in India.

PART - C

III. Answer any 3 of the following (Q.no. 13 is compulsory)

3×3=9

11. Differentiate somatic cell gene therapy and germ line gene therapy.
12. Mention any 3 applications of PCR.
13. List out any three differences between r-selected species and K - selected species.
14. Write any 3 adaptation seen in terrestrial animals.
15. Write a note on shifting or Jhum cultivation.

PART - D

IV. Answer all the questions:

1×5=5

16. a) Explain how recombinant insulin can be produced.

(OR)

- b) Tabulate the analysis of two species population interaction.

★★★ / ★★★