

SECOND REVISION TEST - 2024

Standard XII

Reg.No.

BIOLOGY

Time : 3.00 hrs

Part - I - Bio-Botany (25 marks)
Section - A

Marks : 70

- 2 x 1 = 8
- I. Choose the correct answer.
 1. In majority of plants pollen is liberated at
a) 1 celled stage b) 2 celled stage c) 3 celled stage d) 4 celled stage
 2. An allohexaploidy contains
a) six different genomes b) six copies of three different genomes
c) two copies of three different genomes d) six copies of one genome
 3. Identify correct pair.
a) Digoxin - Analgesic
b) Codeine - Cardiac tonic
c) Quinine - Rheumatic pain treatment
d) Vincristine - Anti carcinogenic
 4. EcoRI cleaves DNA at
a) AGGGTT b) GTATATC c) GAATTC d) TATAGC
 5. Pedogenesis refers to
a) fossils b) water c) population d) soil
 6. The plants which are grown in silviculture system are
a) sesbania and acacia b) solanum and croton
c) pittoria and begonia d) teak and sandal
 7. Opium is derived from the exudate of _____ poppy plants.
a) leaf tip b) shoot latex c) fruit d) flower bud
 8. Jaya and Ratna are the semi dwarf varieties of
a) wheat b) rice c) cow pea d) mustard

Section - B

II. Answer any 4 questions.

4 x 2 = 8

9. What is Codominance?
10. Write the advantages of Bt Cotton.
11. What is a seed ball?
12. What is a food chain?
13. What is a Green house effect?
14. What is pseudo cereal.

Section - C

III. Answer any 3 questions. (Q.No.19 is compulsory)

3 x 3 = 9

15. Explain the incomplete dominance.
16. Write the short notes on cryo preservation.
17. What are the effect of deforestation?
18. Which is called as the king of bitters? Mention their medicinal importance.
19. Draw the diagram of mature anther and label the parts.

Section - D

2 x 5 = 10

IV. Answer all the questions.

20. a) Discuss the steps involved in microsporogenesis. (OR)
b) Compare the various types of blotting techniques.
21. a) Explain the different types of hydrophytes with example. (OR)
b) What are psychoactive drugs. Add a note Marijuana and opium.

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XII Biology

Part - II - Bio-Zoology (35 marks)

Section - A

I. Choose the correct answer:

8 x 1 = 8

1. In which mode of reproduction variations are seen?
a) asexual b) parthenogenesis c) sexual d) both (a) and (b)
2. The male sex hormone testosterone is secreted from
a) sertoli cells b) leydig cells c) epididymis d) prostate gland
3. ZW-ZZ system of sex determination occurs in
a) fishes b) reptiles c) birds d) all of these
4. The age of fossils can be determined by
a) electron microscope b) weighing the fossil
c) carbon dating d) analysis of bones
5. Spread of cancerous cells to distant sites is termed as
a) metastasis b) oncogens
c) proto-oncogenes d) malignant neoplasm
6. The first clinical gene therapy was done for the treatment of
a) AIDS b) cancer c) cystic fibrosis d) SCID
7. Which of the following is an r-species?
a) human b) insect c) rhinoceros d) whale
8. SMOG is derived from
a) smoke b) fog c) both (a) and (b) d) only A

Section - B

II. Answer any 4 questions.

4 x 2 = 8

9. What is parthenogenesis? Give two examples from animals.
10. What is criss-cross inheritance?
11. What are interferons? Mention their role.
12. What is pedogenesis?
13. What are the three levels of biodiversity?
14. Expand : (i) CFC (ii) AQI (iii) PAN

Section - C

III. Answer any 3 questions. (Q.No.19 is compulsory)

3 x 3 = 9

15. Give a schematic representation of spermatogenesis and oogenesis in humans.
16. Mention the main objections to Darwinism.
17. What is bioremediation?
18. What are the differences between somatic cell gene therapy and germ line cell gene therapy?
19. Write notes on the following :
a) Eutrophication b) Algal Bloom

Section - D

IV. Answer all the questions.

2 x 5 = 10

20. a) Describe the major STDs and their symptoms.
(OR)
b) What are the salient features of genetic code?
21. a) Explain differences between primary and secondary immune responses.
(OR)
b) List out major sources of solid waste.
