

SECOND REVISION TEST - 2024

Standard XI

Reg.No.

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BIOLOGY

Time : 3.00 hrs

Part - I - Bio-Botany (35 marks)

Marks : 70

Section - A**I. Choose the correct answer:****8 x 1 = 8**

1. Identify the Archaeobacterium
 - a) Acetobacter
 - b) Erwinia
 - c) Treponema
 - d) Methanobacterium
2. The haploid number of chromosome for an angiosperm is 14, the number of chromosome in its endosperm would be _____.
 - a) 7
 - b) 14
 - c) 42
 - d) 28
3. Vexillary aestivation is characteristic of the family _____.
 - a) Asteraceae
 - b) Fabaceae
 - c) Solanaceae
 - d) Brassicaceae
4. Flowers are zygomorphic in
 - a) Ceropogia
 - b) Thevetia
 - c) Datura
 - d) Solanum
5. The common bottle cork is a product of
 - a) Phellem
 - b) Vascular cambium
 - c) Xylem
 - d) Phellogen
6. Stomata of a plant open due to _____.
 - a) Efflux of K^+
 - b) Influx of Cl^-
 - c) Influx of K^+
 - d) Influx of OH^-
7. Which chlorophyll molecule does not have a phytol tail?
 - a) Chlorophyll-a
 - b) Chlorophyll-c
 - c) Chlorophyll-b
 - d) Chlorophyll-d
8. The number of ATP molecules formed by complete oxidation of one molecule of pyruvic acid is _____.
 - a) 15
 - b) 14
 - c) 13
 - d) 12

Section - B**II. Answer any 4 questions.****4 x 2 = 8**

9. Define - Aestivation.
10. What is Bio-systematics?
11. What is Eustele?
12. Write notes on Hydroponics.
13. Write notes on Radial Vascular bundle.
14. Define - Cell cycle.

Section - C**III. Answer any 3 questions. (Q.No.17 is compulsory)****3 x 3 = 9**

15. Draw the floral diagram and write the floral formula of *Allium cepa*.
16. Explain the structure of Mitochondria.
17. Differentiate cyclic and non-cyclic photophosphorylation.
18. Explain - Photoperiodism.
19. How do mangrove species survive in salt water?

Section - D**IV. Answer all the questions.****2 x 5 = 10**

20. a) Explain sexual reproduction in bacteria. (OR)
- b) Write the botanical description of *Clitoria ternatea*.
21. a) Write the anatomical differences between Dicot stem and Monocot stem. (OR)
- b) Write about EMP pathway.

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XI Biology

Part - II - Bio-Zoology (35 marks)

Section - A

I. Choose the correct answer:

8 x 1 = 8

1. Who coined the term biodiversity?
 - a) Walter Rosen
 - b) A.G.Tansley
 - c) Aristotle
 - d) AP de Candole
2. The ciliated epithelium lines the
 - a) skin
 - b) Digestive tract
 - c) Gall bladder
 - d) Trochea
3. Which of the following have an open type of circulation?
 - a) Frog
 - b) Earthworm
 - c) Pigeon
 - d) Cockroach
4. First step in digestion of fat is
 - a) Emulsification
 - b) Enzyme action
 - c) Absorption by lacteals
 - d) Storage in adipose tissue
5. A person having both A and B antigen on the surface of RBCs belongs to blood group
 - a) A
 - b) B
 - c) AB
 - d) O
6. Muscles are derived from
 - a) Ectoderm
 - b) Mesoderm
 - c) Endoderm
 - d) Neuro ectoderm
7. Iodised salt is essential to prevent
 - a) Rickets
 - b) Scurvy
 - c) Goitre
 - d) Acromegaly
8. Isinglass is used in
 - a) Preparation of wines
 - b) Cleaning of wines
 - c) Distillation of wines
 - d) Preservation of wines

Section - B

II. Answer any 4 questions.

4 x 2 = 8

9. Compare Schizocoelom and Enterocoelom.
10. Comment on the functions of alary muscles.
11. What is tidal volume?
12. Distinguish between Mitral valve and Semilunar valve.
13. Differentiate between rod and cone cells.
14. Mention the advantages of MOET.

Section - C

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

3 x 3 = 9

15. Differentiate between probiotics and pathogenic bacteria.
16. Explain Alzheimer's disease.
17. What are the functions of liver?
18. What is lymph? Write its functions.
19. Name the different types of movements.

Section - D

IV. Answer all the questions.

2 x 5 = 10

20. a) Explain the characteristic features of class Reptilia.
(OR)
- b) explain Disorders of the Respiratory system.
21. a) Explain the mechanism of urine formation.
(OR)
- b) Explain anterior lobe of pituitary secretion.
