

FIRST REVISION TEST - 2023

CLASS : 11

BIOLOGY

MARKS : 70

TIME : 3 HOURS

BIO - BOTANY (1.30 Hrs - 35 Marks)**PART - I****I. Answer all the questions**

8 x 1 = 8

1. 1 Nanometer = a) 10^9 meter b) 10^{-9} meter c) 10^8 meter d) 10^{-6} meter
2. Root buttres are seen in a) Bombax b) Neem c) Banyan d) Mango
3. Flowers are zygomorphic in a) Ceropogia b) Thevetia c) Datura d) solanum
4. The correct sequence in cell cycle is
a) S-M-G1-G2 b) S-G1-G2-M c) G1-S-G2-M d) M-G1-G2-S
5. 'Histogen theory' is proposed by a) Hofmeister b) Nageli c) Hanstein d) Schmidt
6. The word DPD is given by a) Cramer b) Munch c) Dixon d) Mayer
7. The essential component for the formation of chlorophyll is ... a) Mg b) Fe c) Cl d) Mn
8. is responsible for Bakanae disease
a) Auxin b. Cytokinin c) abscisic acid d) gibberillin

PART - II**II. Answer any four questions :-**

4 x 2 = 8

9. What is Nucule?
10. What perfect (or) bisexual (monoclinous) flower?
11. State the protoplasam theory.
12. What are the types of RNA?
13. What are called Tyloses?
14. Give example of immobile minerals.

PART - III**III. Answer any three questions. Q.No. 19 is compulsory :-**

3 x 3 = 9

15. Write the distinguishing features of monera.
16. List out the types of secondary functions of stem?
17. What is glycolysis?
18. What is PCD?
19. Write the economic importance of fibres in our daily life?

PART - IV**IV. Answer all the questions**

2 x 5 = 10

20. a) Write the principles of International code of Nomenclature. (OR)
b) Write the role of Nitrogenase enzyme in nitrogen fixation.
21. a) Write the physiological effects of Auxing. (OR)
b) Write the differences between C_3 and C_4 plants.

BIO - ZOOLOGY (1.30 Hrs - 35 Marks)**I. Answer all the questions**

8 x 1 = 8

1. Metameric segmentation is the main feature of
a. Annelida b. Echmodermata c. Arthropoda d. Coelenterata
2. Assertion (A) : Large intestine also shows the presence of villi like small intestine.
Reasons (R) : Absorption of water takes place in large intestine.
a. Both A and R are true and R is correct explanation of A.
b. Both A and R are true but R is not the correct explanation of A.
c. A is true but R is false
d. A is false but R is true.

3. Choose the wrong statement among the following.
 - a. In earthworm a pair of male genital pore is present.
 - b. Setae help in locomotions of earthworm.
 - c. Muscular layer in the body wall of earthworm is made up of circular muscles and longitudinal muscles.
 - d. Typhlosole is innerpart of the intestine of earthworm.
4. $\text{CO}_2 + \text{H}_2\text{O} \xrightleftharpoons{?} \text{H}_2\text{CO}_3$ which of the following is act as catalysit for above reaction in blood?
 - a. Carbammo haemoglobin
 - b. Carbonic anhydrase
 - c. Hydrogen ions (H⁺)
 - d. Bicarbonate ions (HCO₃⁻)
5. Animal requiring minimum amount of water to produce urine are
 - a. Ureotelic
 - b. ammonotelic
 - c. uricotelic
 - d. Chemotelic
6. Match the following :

1. Cervical nerves	-	(i) 5 pairs		a) 1 - (iv)	2 - (iii)	3 - (i)	4 - (ii)
2. Thoracic nerves	-	(ii) 1 pair		b) 1 - (iv)	2 - (i)	3 - (ii)	4 - (iii)
3. Lumbar nerves	-	(iii) 12 pairs		c) 1 - (iii)	2 - (i)	3 - (ii)	4 - (iv)
4. Coccygeal nerves	-	(iv) 8 pairs		d) 1 - (ii)	2 - (iv)	3 - (i)	4 - (iii)
7. Which of the following hormones are catecholamines?
 - a. Adrenalin and nor-adrenaline
 - b. Thyroxine and Calcitonine
 - c. Growth hormone and ACTH
 - d. oxytocin and melatonis
8. Isinglass is used in
 - a. preparation of wine
 - b. clearing of wine
 - c. distillation of wine
 - d. preservation of wine

II. Answer any four questions :-

4 x 2 = 8

9. What is called Tautonymy? Give an example.
10. Differentiate white adipose tissue from brown adipose tissue.
11. Define. Residual volume.
12. What are heart sounds? How it is caused?
13. Draw Ornithine cycle.
14. Name the hormones secreted from pineal gland. Write their functions.

III. Answer any three questions. Q.No. 19 is compulsory :-

3 x 3 = 9

15. Tabulate any three differences between male and female cockroach.
16. Explain the types of rib bones.
17. Why the limbic system is called the emotional brain? Name the parts of it.
18. What are the benefits of poultry farming?
19. Bili juice contains no digestive enzymes, yet it is important for digestion. Why?

IV. Answer all the questions in detail.

2 x 5 = 10

20. a) Explain the life cycle of Earthworm (*Lampitto mauritii*) with illustration. (OR)
- b) What is ECG? Explain the various waves of ECG?
21. a) What are the benefits of regular exercise? (OR)
- b) Write the differences between rod and cone cells and draw a neat diagram.