

Biology

HSSC (11th) 2nd Annual 2022

Roll No.

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(To be filled in by the candidate)

Time : 2:40 Hours

Paper : I

Subjective

Marks : 68

Note:- Section B is compulsory. Attempt any 3 questions from Section C.

SECTION-B

2. Write short answers to any Eight parts.

(8 x 2 = 16)

- i. Why all reactions occur in aqueous medium?
- ii. What is the function of non-protein part when it is attached with enzyme and in which form the enzyme changed in to?
- iii. What happen when an enzyme is active in wrong place, comment with an example?
- iv. What are the effects of Heaton enzyme? Give one beneficial and one harmful effect.
- v. Define Parasexuality. In which group it is found?
- vi. Define Nuclear Mitosis.
- vii. Differentiate Pinacoderm from Choanoderm.
- viii. Write down any two parasitic adaptations in Platyhelminthes for parasitic mode of life.
- ix. Write down any two importances of Mollusca with example.
- x. Write down any four characters of birds.
- xi. Define Chemiosmosis.
- xii. Differentiate cellular respiration from external respiration.

3. Write short answers to any Eight parts.

(8 x 2 = 16)

- i. Differentiate between Biotechnology and Social Biology.
- ii. Write the names of four eras of geological time chart.
- iii. Why plasma membrane is called differentially permeable?
- iv. Why primary lysosomes are called autophagosomes?
- v. What are red tides?
- vi. What are kelps? Name the parts of thallus of kelp.
- vii. Why are diatoms considered major producers in fresh water ecosystem?
- viii. What is the importance of shells of dead foraminiferans?
- ix. What is overtopping?
- x. What are paraphyses?
- xi. What are blue babies?
- xii. Differentiate between apoplast pathway and symplast pathway.

4. Write short answers to any Six parts.

(6 x 2 = 12)

- i. Write two characteristics of phage virus.
- ii. Write any two postulates of germ theory of disease.
- iii. What is chlorosis and its cause?
- iv. What is the role of HCl in digestion?
- v. How detritivore animals get their food? Give an example.
- vi. What is photorespiration and its effects on plants?
- vii. Why the lungs are spongy in nature?
- viii. How haemoglobin act an efficient oxygen carrier?
- ix. Why the tuberculosis is more common in poor people?

SECTION-C

(EACH QUESTION CARRIES EIGHT (8) MARKS)

- 5.(a) Why cells unite to form tissues and tissues unite to form organ and organ system? Discuss. 4
- (b) List functions of blood. (Any Eight) 4
6. (a) Write a note on waxes and phospholipids. Give their uses. 4
- (b) Explain the life cycle of Black Bread Mold with suitable diagram. 4
7. (a) How cocci bacteria differ from bacilli type bacteria? Give shapes with examples. 4
- (b) Make a sketch of life cycle of a plant in which gametophyte stage is dominant and sporophyte stage is dependent. 4
8. (a) What is hepatitis? Give its types and symptoms. 4
- (b) Elaborate the non-cyclic phosphorylation with the help of diagram. 4
9. (a) Discuss structure and functions of plasma membrane. 2+2
- (b) Discuss the process of digestion in planaria. 4

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CANCELLED