Roll No

Define immunity. Discuss its types.

Sketch various steps of Krebs' cycle

Describe habitat, occurrence and reproduction in Nostoc

(b)

9. (a)

(b)

HSSC-(P-I)-A/2024

(For All Sessions)

Biology (Subjective)

(GROUP-I)

Time: 2:40 Hours

Marks: 68

(1+1+2=4)

(2+2=4)

SECTION-I 2. Write short answers of any eight parts from the following: (8x2=16)i. What are terpenoids? Give two examples. Draw diagrammatic representation of an enzyme – substrate reaction (Lock and Key Model) ii. How enzyme concentration affects the rate of enzyme action? iii. What are inhibitors? Give their types. iv. Differentiate septate and non septate hyphae Compare obligate parasites with facultative parasites. Vİ. How infestation is different from disinfestations? vii. Differentiate polyps and medusae. What do you know about pinworms? x. Name the scales of fish. ix. xi. The oxygen releases during photosynthesis comes from water, how you prove? XII. What is the importance of phosphorylation in energy driving reactions? 3. Write short answers of any eight parts from the following: (8x2=16)i. What is biological method? Name its steps in order. ii. What is biological control? Give an example. iii. How outer membrane of mitochondria differs from inner membrane? iv. Why peroxisomes are called so? v. Write two characteristics of protozoa. vi. Give at least two examples of Dinoflagellates. Which pigments are found in them? νii. In which group, the giants of protist kingdom are included? Name any giant protist. viii. Why pelomyxa palustris may be the most primitive of all eukaryote-like forms? How breathing is different from cellular respiration? ix. What changes occur in animal during diving reflex? X. What is brain haemorrhage? Give its preventive measures. xi. What is pericardium? Write its function. XII. Write short answers of any six parts from the following: (6x2=12)How virion differs from prion? What are plasmids? Give their role i. iii. Give two important features of Lycopsida. Differentiate over topping and plannation. iv. What are paraphyses? Give their function. Compare homospory with heterospory. ٧. Give the role of secretion in digestion. vii. viii. How pepsinogen is converted into pepsin? Differentiate herbivores and carnivores with example. ix. SECTION-II Note Attempt any three questions. Each question carries equal marks: (8x3=24)(2+2=4)5. (a) How diseases can be controlled? Give preventive measures. (2+2=4)Explain respiration in cockroach. Draw its labeled diagram. (b) (4)6. (a) Describe three main types of RNA. (4)Discuss important features of ascomycota. (b) (1+1+2=4)What are plastids? Discuss their types and functions. 7. (a) (1+3=4)How digestion in Duodenum takes place? Write role of liver and pancreas. (b) (4)Discuss the structure of a virion 8. (a) (1+3=4)