

2024
(Session : 2022-26)

Time : 3 hours

Full Marks : 60

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from both the Groups as directed.

Group – A
(Compulsory)

1. Choose the correct answer of the following :

1×5 = 5

- (a) The first trophic level of food chain is formed by:
- (i) Producer
 - (ii) Herbivore

- (iii) Carnivore
 - (iv) Decomposer
- (b) Which of the following is responsible for fluctuation in population size ?
- (i) Natality
 - (ii) Mortality
 - (iii) Immigration
 - (iv) All of these
- (c) In Commensalism :
- (i) One species is benefitted and other is harmed
 - (ii) Both species are benefitted
 - (iii) One species benefitted and other is not affected
 - (iv) Both are harmed
- (d) Transfer of amine group from one amino acid to other is called as :
- (i) Deamination
 - (ii) Transacetylation
 - (iii) Deacylation
 - (iv) Transamination

(e) Which class of Carbohydrate cannot be hydrolyzed further ?

- (i) Monosaccharides
- (ii) Disaccharides
- (iii) Polysaccharides
- (iv) Mucopolysaccharides

2. Write short notes on any **two** of the following :

5×2 = 10

- (a) Law of limiting factor
- (b) Carbon cycle
- (c) Chipko movement
- (d) Gluconeogenesis
- (e) Classification of lipids

Group – B

Answer any **three** questions, selecting not more than **two** from any Section : 15×3 = 45

Section – I

3. Define population. What are the characteristics of population ?

4. Define Community. Describe Community interaction in details.
5. What do you mean by biodiversity ? Describe its types and importance.

Section – II

6. What are Carbohydrates ? Describe Kreb's cycle.
7. Give an account of structure and classification of Amino Acid.
8. Define enzyme. Explain various factors that affects enzyme activity.

