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Zoology (Hons.) Paper-I

Answer five questions, selecting at least two from each Group.

Group-A

1. Describe the structure, life cycle and pathogenicity of *Entamoeba histolytica*.
2. Classify Phylum Porifera upto orders giving diagnostic characters and suitable examples.
3. Give an account of parasitic adaptations encountered in platyhelminthes.
4. Describe the larval forms of echinoderms and their phylogenetic significance.

Group-B

5. Define food-chain and food web. Describe different types of food-chains with examples.
6. Explain Shelford's law of tolerance with an illustration. Discuss the combined concept of limiting factors, with reference to at least one abiotic factor.
7. What do you mean by species diversity ? Give an account of measures of species diversity.
Or, Define biodiversity. Give an account of ecological mechanisms contributing to diversity.
8. Write short notes on any two of the following :
 - (a) Rain water harvesting
 - (b) Tiger Reserves of India
 - (c) Conservation of biodiversity
 - (d) Altruism and selfishness
 - (e) Ozone