

**Zoology (P.G.)**

**[CBCS]**

**M.Sc. Third Semester End Examination-2024**

**(Regular & Supplementary Paper)**

**PAPER-ZOO-304**

**Full Marks: 40**

**Time: 02 Hrs**

*The figures in the right hand margin indicate marks*

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

*Illustrate the answers wherever necessary*

**(Use separate answer script for each group)**

**Group A**

**Marks 20**

**[Biological Oceanography]**

**1. Answer any two questions of the following: 2x2= 4**

- a. What is an ecological equivalence?
- b. What is abyssal zone?
- c. What do you mean by oceanography?
- d. State the significance of a sea beach.

**2. Answer any two questions of the following: 2x4= 8**

- a. Explain the role of temperature as physical factor in marine ecosystem.

(2)

- b. Classify marine environment on the basis of different zonation system. (only schematic diagram)
- c. What are the impact of severe cyclonic storm (DANA) on marine fisheries?
- d. Write a note on benthic communities.

**3. Answer any one question of the following: 1x8=8**

- a. Describe the “deep sea fauna” and their adaptation. How far it is correct to call ‘deep sea’ as a desert.
- b. Describe in detail the adaptations of pelagic organisms in the marine environment.

**Group B**

**Marks 20**

**(Ecological Principle)**

**4. Answer any two questions of the following: 2x2= 4**

- a. Define species, population, community & Ecotype.
- b. Define ecotone with example.
- c. Define Edge affect with example.
- d. Define dispersal with example.

**5. Answer any two questions of the following: 2x4= 8**

- a. Describe about Edge types with proper figure.

(3)

- b. Write a short note on Metapopulation.
- c. Describe about survivorship curve with proper figure & examples.
- d. Describe about fundamental niche, realized niche, resource partitioning and character displacement.

**6. Answer any one question of the following: 1x8=8**

- a. Describe r and k selection. Describe population growth curve with figure. 4+4
- b. Briefly describe about Island Biogeography. Write a note on biogeographical zones of India. 4+4

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