

- Note: 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw a neat labeled diagram wherever applicable.

Q.I) Answer the following 20M

- 1a. Describe the skeleton in Protozoa.
OR
1a. Explain in detail different types of binary fission
1b. Explain the life cycle of tapeworm.
OR
1b. Describe complete and incomplete metamorphosis with examples.

Q.II) Answer the following 20M

- 2a. What is egg? Describe different types of egg on the basis of amount of yolk present and distribution of yolk.
OR
2a. What is cleavage? Describe type of cleavage on basis of characteristics of eggs.
2b. Define blastula. Describe different types of blastula and explain details of blastula of frog.
OR
2b. Give the significance of Parthenogenesis and Fertilization.

Q.III) Answer the following 20M

- 3a. Classify Marine Ecosystem with suitable diagram. State the characteristics of Pelagic region.
OR
3a. Classify and explain different types of Zooplankton.
3b. Explain the types of Survivorship Curves.
OR
3b. Define Edaphic factors. Explain the sub-layers of Soil Profile.

Q.IV) Write short notes on: (Any three) 15M

- 1) Mysis Larva
- 2) Polymorphism
- 3) Monospermic and Polyspermic fertilization with examples.
- 4) Chemical and Physical agents affecting Parthenogenesis.
- 5) Hydrological Cycle
- 6) Types of Lakes