

VCD 230915 S.Y.BSc Subject: Zoology Paper: I (USZO301) Sem: III
 Max Marks: 75 Date : 23/09/15 Time: 2.30hrs.

- 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