

M.Sc. Semester - 3 (CBCS) Examination**Oct/Nov. - 2018****Zoology - 313 - Structure and Functions of Invertebrates (Core)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que-1 Answer any seven of the following. (14)
1. Write salient features of Phylum Protozoa.
 2. Preservation methods of Mollusca.
 3. Explain intracellular digestion.
 4. Name of the parasitic larval forms.
 5. Draw a labeled diagram of Parapodia.
 6. Function of spermatheca.
 7. Define pest.
 8. Name any three pests of Paddy and Wheat.
 9. Name the phylum considered under higher invertebrates.
 10. Name of the free living larval forms.
- Que-2 Answer any two of the following. (14)
- (1) Write short-notes on larval forms of Crustacean.
 - (2) Describe the Excretory mechanism in Earthworm.
 - (3) Write short notes on Apiculture.
- Que-3 Answer the following. (14)
- a. Describe the beneficial insects.
 - b. Describe the reproductive mechanism in grasshopper.
- OR
- Que-3 Answer the following.
- a. Give a general account of excretion in Gastropods.
 - b. What is IPM? Describe various methods for IPM.
- Que-4 Answer any two of the following. (14)
1. What are minor phyla? Explain with appropriate explain.
 2. Describe the process of digestion in Amoeba.
 3. Describe the mode of respiration in Cockroach.
- Que-5 Answer any two of the following. (14)
1. What are protochordates? Describe them with examples.
 2. Classify Phylum Echinodermata up to order with appropriate examples.
 3. Write notes on free living larval forms in Invertebrates.
 4. Describe the food, feeding techniques and digestion in Gastropod animals.
