



MS – 332



II Semester B.Sc. Examination, May 2016  
(Fresh + Repeaters) (CBCS) (2014-15 and Onwards)  
**ZOOLOGY – II**  
**Non-Chordata – II**

Time : 3 Hours

Max. Marks : 70

**Instructions :** 1) *Draw diagrams wherever necessary.*  
2) Answer should be **completely** either in **Kannada** or **English**.

**PART – A**

I. Answer **any five** of the following :

(5×3=15)

- 1) Mention the features of Arthropoda in *Peripatus*.
- 2) Briefly explain serial homology citing an example.
- 3) Write a note on the simple eye of Arthropoda.
- 4) Sketch and label the Glochidium larva.
- 5) Comment on the following features of Echinodermata :
  - a) Autotomy
  - b) Body symmetry.
- 6) Name the coelomic cavities of Balanoglossus.
- 7) Give the scientific name of any three honeybee species.

**PART – B**

II. Answer **any five** of the following :

(5×5=25)

- 1) With the help of neat labelled diagram describe the female reproductive system of *Penaeus*.
- 2) What is holometabolous metamorphosis ? Explain with an illustration citing a suitable insect example.
- 3) Draw a neat labelled diagram of T.S. of Shell of *Unio* and describe the structure.
- 4) Describe the structure of Ctenidium in *Unio* with a neat labelled diagram.
- 5) Sketch and label the Ambulacral system of Sea Star.
- 6) Give the affinities of Hemichordata with Echinodermata.
- 7) Briefly explain the steps employed in pearl culture.

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## PART – C

III. Answer **any three** of the following :

(10×3=30)

- 1) With a neat labelled diagram describe the external features of *Penaeus*.
  - 2) Give an account on the respiratory organs in Arthropods.
  - 3) Enumerate the general characters of Phylum Mollusca. Classify with examples.
  - 4) Describe the structure and the significance of
    - a) Ophiopluteus larva
    - b) Echinopluteus larva.
  - 5) Give an account on silkworm rearing and management practices.
  - 6) Write an explanatory note on :
    - a) Types of Prawn fishery.
    - b) Prawn preservation techniques.
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