

II Semester B.Sc. Examination, May 2017
(Fresh + Repeaters) (CBCS) (2014-15 and Onwards)

ZOOLOGY (Paper - 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 annelidan characters in peripatus.
- 2) Draw a neat labelled diagram of antennule of penaeus.
- 3) Write a note on book lungs.
- 4) Name any three classes of phylum Mollusca with an example each.
- 5) List any six salient features of phylum Echinodermata.
- 6) List the affinities of Hemichordata with Echinodermata.
- 7) Write a note on pests of honey bee.

PART - B

II. Answer **any five** of the following : (5×5=25)

- 1) Describe male reproductive system of penaeus.
- 2) With a labelled sketch, describe the structure of compound eye.
- 3) Define metamorphosis. Explain paurometabola with examples.
- 4) Explain sectional view of shell of unio with a labelled diagram.
- 5) Describe digestive system of starfish.
- 6) With a neat labelled diagram, explain the externals of balanoglossus.
- 7) Give an account of byproducts of silk industry.

P.T.O.



PART - C

(3x10=30)

III. Answer any three of the following :

- 1) Enumerate the general characters of phylum Arthropoda and classify upto classes with examples.
 - 2) Write notes on :
 - a) Concept of serial homology of appendages of Prawn.
 - b) Trachea.
 - 3) Describe the circulatory system of Unio.
 - 4) Describe the structure of following :
 - a) Ophiopluteus larva.
 - b) Echinopluteus larva.
 - 5) Explain rearing and management practices of silkworm.
 - 6) Write notes on :
 - a) Bee keeping
 - b) Pearl culture.
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