



SM – 393

II Semester B.Sc. Examination, May/June 2018
(CBCS (F+R) (2014 – 15 & 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) Enumerate any three arthropodan features of peripatus.
 - 2) Sketch and label Nauplius larva.
 - 3) Write notes on simple eye of arthropoda.
 - 4) Mention the function of
 - a) Ctenidium
 - b) Mantle
 - c) Hepatopancreas
 - 5) Assign the following to their respective classes.
 - a) Sea Lily
 - b) Sea urchin
 - c) Sea star
 - 6) List any three affinities of hemichordata.
 - 7) Give the scientific name of any three species of honey bee.

PART – B

- II. Answer **any five** of the following : (5×5=25)
- 1) Describe the female reproductive system of Penaeus.
 - 2) Explain the ommatidium of compound eye, with a suitable diagram.
 - 3) Write notes on book lungs.

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- 4) Describe the structure of glochidium larva with a neat labelled diagram. Mention its significance.
- 5) Enumerate any five salient features of phylum echinodermata.
- 6) Give an account of Proboscis coelom of Balanoglossus, with an appropriate illustration.
- 7) Write notes on :
 - a) Pests of silk worm
 - b) Bee products.

PART - C

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

(3×10=30)

A.

- 1) Describe thoracic appendages of Prawn with labelled diagrams.
- 2) Define metamorphosis. Explain different types of metamorphosis in insects with suitable examples.
- 3) Enumerate general characters of phylum mollusca. Classify the phylum upto class level with an example each.
- 4) With the help of a neat labelled diagram explain ambulacral system of starfish.
- 5) Elaborate the various methods of Prawn preservation.
- 6) Write an explanatory note on :
 - a) Bipinnaria larva
 - b) Byproducts of silk industry.