



SN – 374

I Semester B.Sc. Examination, November/December 2017
(CBCS) (2014-15 and Onwards) (Freshers + Repeaters)
ZOOLOGY (Paper – I)
Non-Chordata

Time : 3 Hours

Max. Marks : 70

Instructions : 1) Draw **neat** labelled diagrams **wherever** necessary.
2) Answers should be **completely** in **Kannada** or **English**.

PART – A

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

(5×3=15)

- 1) Distinguish between diploblastic and triploblastic conditions with suitable examples.
- 2) Define radial symmetry citing suitable examples.
- 3) Give the functions of the following :
 - a) Contractile vacuoles.
 - b) Nematocysts.
 - c) Flame cells.
- 4) Write a note on mixotrophic nutrition in protozoa.
- 5) List any three unique features of Nematoda.
- 6) Differentiate ecto and endoparasites citing suitable examples.
- 7) Give the scientific name of any three malarial parasites.

PART – B

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

(5×5=25)

- 1) Distinguish between acoelomate and pseudocoelomate conditions citing suitable examples.
- 2) Explain flagellar movement of locomotion in protozoa.
- 3) Explain Rhagonoid type of canal system in sponges.

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- 4) Name any five zooids of Halistemma and mention their function.
- 5) Describe the nervous system in planaria.
- 6) Sketch and label the dorsal view of earthworm.
- 7) Mention the occurrence, disease caused, mode of transmission and preventive measures of Fasciola hepatica.

PART - C

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

(3×10=30)

- 1) Define conjugation. Explain with reference to paramecium.
- 2) Enumerate the general characters of phylum porifera. Classify upto class level with an example each.
- 3) What are coral reefs ? Explain the types.
- 4) Describe the digestive system of earthworm.
- 5) Explain the life cycle of Ascaris lumbricoides.
- 6) Give an account of :
 - a) Vermi composting.
 - b) Parasitic adaptations of leech.