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 dossal 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.