



- 14) Asexual reproduction in volvox.
- 15) A brief account of plasmids.
- 16) Sexual reproduction in chlamydomonas.
- 17) Serial dilution technique.

PART - C

C. Give a detailed account of **any four** of the following :

(4×8=32)

- 18) Describe the thallus organisation in Algae.
- 19) Morphology of chara.
- 20) Explain Nannandrous species of Oedogonium.
- 21) Describe the general characteristic features of viruses.
- 22) Economic importance of cyanobacteria.
- 23) Structure of bacterial cell.

I Semester B.Sc. Examination, November/December 2018
(CBCS) (2014 - 15 & Onwards) (Repeaters)
(Prior to 18 - 19)
ZOOLOGY (Paper - I)
Non-Chordata - I

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) What is symmetry? Mention any two types.
- 2) Define true metamerism citing a suitable example.
- 3) Name the locomotory organelles in protozoa.
- 4) Draw a neat labelled diagram of the externals of sycon.
- 5) Mention any three unique characters of ctenophora.
- 6) Name the disease caused by the following parasites :
 - a) Plasmodium vivax.
 - b) Ascaris lumbricoides.
 - c) Wuchereria bancrofti.
- 7) Write a note on vermicompost.

PART - B

II. Answer any five of the following :

(5×5=25)

- 1) What is coelom? Differentiate between pseudocoelom and eucoelom with examples.
- 2) Write a note on holozoic nutrition in protozoa.
- 3) Name any five types of cells found in Sycon and mention their function.

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- 4) What are coral reefs ? Explain any one type of coral reef.
- 5) Describe the externals of planaria with a neat labelled diagram.
- 6) Explain the digestive system of earthworm with a neat labelled diagram.
- 7) Give the occurrence, mode of transmission, disease caused and preventive measures of Entamoeba histolytica.

PART - C

III. Answer **any three** of the following : (3×10=30)

- 1) Enumerate the general characters of phylum protozoa. Classify upto classes with an example each.
- 2) With reference to sponges, explain syconoid and rhagonoid canal systems:
- 3) Write notes on :
 - a) Feeding and digestion in Hydra.
 - b) Polymorphism in Halistemma.
- 4) With a neat labelled diagram, explain the male reproductive system of earthworm.
- 5) Explain the life cycle of Taenia solium.
- 6) Write notes on :
 - a) Economic importance of leech.
 - b) Parasitic adaptations in flatworms.