

B.Sc. Forensic Science - Semester V

FS1502 Zoology - V

Teaching Scheme	Examination Scheme
Lectures - 3 hr/Week	Class Test - 12 Marks
Tutorials - 1 hr/Week	Teachers Assessment - 6 Marks
Credits - 4	Attendance - 12 Marks
	End Semester Exam - 70 marks

Course outcomes:

The student at the completion of the course will be able to:

- Demonstrate comprehensive identification abilities of non-chordate diversity
- Explain structural and functional diversity of non-chordate
- Explain evolutionary relationship amongst non-chordate groups
- Get employment in different applied sectors
- Enable students to take up research in Biological Science.

Unit I – Protozoa to Coelenterate

- Protozoa – Paramecium (Morphology and Reproduction)
- Porifera – Sycon (Canal System)
- Coelenterata – Obelia (Morphology and Reproduction)

Unit II – Ctenophora to Nematelminthes

- Ctenophora – Salient features
- Platyhelminthes – Taenia (Tape worm) (Morphology and Reproduction)
- Nematelminthes – Ascaris lumbricoides (Morphology and Reproduction)

Unit III – Annelida & Arthropoda

- Annelida – Hirudinaria (Leech) (Morphology and Reproduction)
- Arthropoda – Palaemon (Prawn) (Morphology, Appendages, Nervous System and Reproduction)

Unit IV – Mollusca to Hemichordata

- Mollusca – Pila (Morphology, Shell, Respiration, Nervous System and Reproduction)
- Echinodermata – Pentaceros (Morphology and Water Vascular System)

Unit V – Vectors and pests

- Life cycle and their control of pests: Gundhi bug, Sugarcane leafhopper, Rodents, Termites and Mosquitoes and their control

Suggested Readings:

1. Barnes et al (2009). The Invertebrates: A synthesis. Wiley Backwell 17
2. Hunter: Life of Invertebrates (1979, Collier Macmillan)
3. Marshall: Parker & Haswell Text Book of Zoology, Vol. I (7th ed 1972, Macmillan)
4. Moore: An Introduction to the Invertebrates (2001, Cambridge University Press)
5. Brusca and Brusca (2016) Invertebrates. Sinauer
6. Jan Pechenik (2014) Biology of the invertebrates. McGraw Hill

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