

### **CORE PRACTICAL – I : BASED ON C1, C2 AND C3**

**Dissection Practical to be completely removed as it is unethical and against conservation rules to kill animals.**

**Hence, virtual dissections using computer-aided programmes to be done.**

Objective : To illustrate the organization, relate structure and functions of  
Invertebrates & Chordates and to inculcate surgical skill.

Dissection : Cockroach : Digestive System, Nervous system reproductive system

Mounting : Cockroach : Mouth Parts Chordate

Dissections : Fish : Digestive System, Male and female urinogential system.

Mounting : Fish: Placoid Scales

Spotters :

1. Classify giving reasons : Paramecium, any coral, obelia Leech, Ascaris chiton, sea cucumber, Balanoglossus Teleost fish, Non-Poisonous snake / Poisonous snake, king fisher, bat.
2. Draw labeled sketches : T.S.of Ascaris, T.S.of Nereis T.S.of Planaria, T.S Thro Pharynx of amphioxus, skull of frog.
3. Biological significance : Gemmules in sponges, Physalia, Limulus, Hippo campus, chamelleon, axolotyl larva, Nautilus.
4. Relate structure and function : Spicules of sponges, scolex of tapeworm, Nereis parapodium, carapace and plastron, placoid scales, quill feather, Electric organ – Narcine.
5. Write descriptive notes.

### **Core Practical III**

#### **Based on core Papers V, VI, and VII**

- 1) Blood grouping in man.
- 2) Chironomous larva – Giant Chromosomes. (Drosophila / Chironomous)
- 3) Drosophila male and female.- Genetic importance
- 4) Homologous and analogous organs – Fore limbs and Hind limbs.
- 5) Qualitative estimation of carbohydrates, Protein and Lipids.
- 6) Quantitative estimation of Blood Glucose.
- 7) Compound microscope.
- 8) pH meter.
- 9) Centrifuge.
- 10) Colorimeter/ Spectrophotometer.
- 11) Plasmid (Any two)
- 12) Cosmid
- 13) Phagomid.