

**SEMESTER - I and II**  
**CORE PRACTICAL – I**  
**(Based on C<sub>1</sub>, C<sub>2</sub> and C<sub>3</sub>)**

**Instructional Hrs: 90**  
**Max. Marks: CIA- 40; ESE-60**

**Sub.Code:17ZOU CPO1**  
**Credits: 4**

**LABORATORY EXERCISES:**

1. **COCKROACH** - Digestive system, Nervous system, Male and Female Reproductive system (Live Dissection- Demonstration)
2. **FROG** - Digestive system, Arterial system, Venous system, Male and Female Urinogenital system (Virtual Dissection)

**MOUNTINGS:**

3. **COCKROACH** - Mouth parts
4. **EARTHWORM** - Body setae

**EXPERIMENTS:**

5. **Culturing and identification of Paramecium.**
6. Observation – Butterfly Life cycle.
7. **Identification and determination of morphometric characters of fresh water fishes. (Any three)**
8. Study of metamorphosis in Frog
9. Observation of beak modification in birds.
10. Observation of feet modification in birds.
11. Identification of different types of feathers in a bird.

**FIELD STUDY** - Observation and identification of any 15 insects.  
Report must be submitted along with record note book.

**SPOTTERS:**

**A.CLASSIFY GIVING REASONS:**

Paramecium, Obelia, Taenia solium, Earthworm, Prawn, Starfish, Shark, Frog, Pigeon, Rabbit.

**B. DRAW LABELLED SKETCH :**

Obelia medusa, T.S of Earthworm, T.S. of Taenia solium, Frog- Skull (Dorsal view and ventral view), Pectoral and Pelvic girdle, Dentition- Man.

**C. COMMENT ON BIOLOGICAL SIGNIFICANCE:**

Sponge gemmule, Physalia, Peripatus, Axolotyl larva, Limulus, Chaemeleon.

**D. RELATE STRUCTURE AND FUNCTION:**

Spicules of Sponges, Scolex of Taenia, Parapodium of Nereis, Body setae of Earthworm, Mandible of Cockroach, Radula of Pila, Placoid scale, Quill feather.

**E. WRITE DESCRIPTIVE NOTES:**

Sea anemone, Lepas, Mysis larva, Bipinnaria Larva, Octopus, Hippocampus, Exocoetus, Rhacophorus, Cobra, Bat.