

SEMESTER - I and II
CORE PRACTICAL – I
(Based on C₁, C₂ and C₃)

Instructional Hrs: 90

Sub.Code:17ZOU CPO1

Max. Marks: CIA- 40; ESE-60

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.

SEMESTER - I and II
ALLIED ZOOLOGY PRACTICAL
[Based on Papers I and II]

Instructional Hrs: 90
17ZOUAP01
Max.Marks : CIA – 20; ESE – 30

Sub.Code:
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. Blood grouping- ABO and Rh system.
6. Determination of bleeding time.
7. Determination of clotting time.
8. Haemoglobin estimation by Sahli's method

SPOTTERS:

Identify and comment on:

Paramecium, Earthworm, Cockroach, Starfish, Shark, Placoid Scale, Frog, Earthworm - Body setae, Penial setae, Vermicompost, Haemoglobinometer, Antisera A, B and D, Chandrika, Silk gland, Silkworm cocoon, *Penaeus indicus*, *Catla catla*, *Tilapia mossambicus*, Honey bee – Queen, Drones, Workers, Honey, Bee hive, Newton Bee hive.