

Dr. C.V. Raman University

Kargi Road Bilaspur (C.G.)

DEPARTMENT OF ZOOLOGY

LIST OF EXPERIMENT (B.SC.)

Sem. – I (ZOOLOGY)

1. Dissection of alimentary canal of Earthworm (*Pheretima posthima*) and Flag Labeling.
2. Dissection of Reproductive Organ of Earthworm (*Pheretima posthima*) and Flag Labeling.
3. Dissection of Nervous system of Earthworm (*Pheretima posthima*) and Flag Labeling To crystallization of the given organic compound.
4. Study of Permanent slides of Nerve Ring of Earthworm.
5. To prepare a slide of mitosis from onion root tip by Squash method and to study it.
6. Spotting
[1]Slides
[2]Specimens

Sem. – II (ZOOLOGY)

1. To prepare a slide of meiosis from Grass hopper Testis and to study it.
2. To prepare a slide of Polytene Chromosome in Chironomid Larva and to study it.
3. To prepare a slide of mitosis from onion root tip by Squash method and to study it.
4. To prepare a slide of developmental stages of frog by whole mount to study it.
5. To prepare a slide of developmental stages of frog by section cutting and to study it.
6. To prepare a slide of developmental stages of chick by whole mount and to study it.
7. To prepare a slide of developmental stages of chick by section cutting and to study it.
8. Spotting
 - [1]Museum specimens
 - [2] Bones [Frog, Varanus, Fowl & Rabbit]
 - [3]Slides

Sem. – III (ZOOLOGY)

1. To prepare a slide of Salivary gland from Chironomid Larva and to study it.
2. To prepare a slide of meiosis from Grasshoppers Testis and to study it.
3. To prepare a slide of mitosis from onion root tip by Squash method and to study it.
4. Explain Hemophilia disease on the basis of genetics.
5. Explain Colour Blindness disease on the basis of genetics.
6. Describe Principle, method and use of PCR.
7. Describe Principle, method and use of Gel-Electrophoresis.
8. Describe Principle, method and use of DNA- Fingerprinting.
9. Spotting

[1] Genetics basis of Model

[2] Slides

Sem. – IV (ZOOLOGY)

1. Estimation of RBC Counting of given sample.
2. Estimation of WBC Counting of given sample.
3. Determination of Blood group of own blood.
4. Use of Kymograph.
5. Detection of Protein in given sample.
6. Detection of Lipid in given sample.
7. Detection of carbohydrate in given sample.
8. Detection of Urea & Ammonia in given sample.
9. Detection of Human Salivary enzyme in relation to pH in given sample.
10. Describe Principle, method and use of DNA- Fingerprinting.
11. Spotting

[1] Histological slides

[2] Endocrine Slides

Sem. – V (ZOOLOGY)

1. Describe Principle, method and use of Paper Chromatography.
2. Detection of amino acid in given sample with the help of Paper Chromatography.
3. Describe Principle, method and use of Microtome.
4. Study of different techniques for museum keeping.
5. Maintenance of aquarium.
6. Study of Planktons.
7. Study of Pest
 - a. Store grain Pests
 - b. Vegetable Pests
8. Study of museum specimen of fresh water edible fishes.
9. Study of pH of water and soil.
10. Spotting
 - a. Zooplanktons
 - b. Phytoplanktons

Sem. – VI (ZOOLOGY)

1. Study of pond ecosystem.
2. Study of terrestrial fauna.
3. Estimation of Oxygen and Chloride.
4. Describe wild life endangered species.
5. Describe wild life threatened species.
6. Study of specimen commensalism.
7. Spotting
 - a. Fossils
 - b. Colorization
 - c. Specimen