

BACHELOR OF SCIENCE in ZOOLOGY (HONS)
SEMESTER – V

Paper Code: ZOO-510P

25 marks

ZOO-510P: Practical on Cell Biology and Genetics, Evolution, Adaptation, Ethology, Biotechnology and Bioinstrumentation Cell Biology and Genetics

7 marks

Squash preparation of onion root tip for the study of mitosis Temporary and permanent squash preparation of the grasshopper testis for the study of meiosis. Temporary preparation of the salivary gland chromosomes of Drosophila/Chironomous/Grasshopper and Rat. Study of permanent slides of Autosomes and Sex chromosomes of grasshopper and rat. Demonstration of Sex Chromatin (Barr body).

Adaptation and Ethology

5 marks

Study of mimicry in insects: Stick insect, leaf insect, moth, cicada, sea horse, flat fish, remora, flying lizard, bat etc.

Study of different types of nests of animals. Study of parental care.

Biotechnology and Bioinstrumentation

5 marks

Demonstration of Alcohol fermentation using yeast/curd making using starter culture.

Preparation of standard curve of amino acid and protein. Demonstration of oil emulsion technique in microscopy. Separation of tissue extract using centrifuge. Demonstration of electrophoresis-paper/gel

Practical records

3 marks

Viva-Voce

5 marks
