

M.Sc. SEMESTER II

COURSE – 10 Practical Zoology (II) LABORATORY MANUAL AND RECOERD
Credits –4

Paper code: MZO510

Total Marks: 100

Physiology & Physiological Chemistry

Contents

BLOCK – I

Unit –1: Determination of Proteins by Biuret Method

Unit –2: Determination of Glucose by Anthrone Method / Somogi Method

BLOCK – II

Unit –3: Determination of Enzyme Activities of SDH, LDH and GDH.

Unit –4: Effect of Substrate Concentration and pH on Succinate Dehydrogenase Activity.

Unit –5: Estimation of Blood Chlorides under Hetero Osmatic Media.

Unit –6: Adrenalin and Insulin induced changes in Blood Glucose Levels in Frog.

Unit –7: Estimation of Hemoglobin, Erythrocytes Sedimentation Rate (ESR), Coagulation Time.

Unit –8: Kymograph Recording of Muscle Twitch, Tetanus and Fatigue.

Unit –9: Culture setup and harvest.

Unit –10: Slide preparation.

Unit –11: Staining.

Unit –12: Microscopy Training and Mitotic Index Calculation.

Unit –13: Karyotyping.

BLOCK – II Development Biology

Unit –14: Procedure for isolating and culturing early hour's chick Embryo by filter paper ring method.

Unit –15: Development of a microlecithal Egg: Spiral cleavage in a snail.

Unit –16: Demonstration of vitellogenesis by classifying the Development stages of oocytes in the crustacean ovary.

Unit –17: Fecundity Index

Note - Student has to perform at least 8 experiments in the year. Some more experiments may be included as per the availability in the study center but the experiment must be of master level. List will be updated soon.