

ANIMAL PHYSIOLOGY, DEVELOPMENT BIOLOGY AND BIOTECHNOLOGY

Semester	Subject Code	Category	Practical		Theory		Practical	Credits
			Hrs/ week	Total Hours/ Semester	Hrs/ week	Total Hours/ Semester		
VI	21CZO61	Practical-III	3	45	-	-	45	3

ANIMAL PHYSIOLOGY

1. Study of Human Salivary Amylase in Relation of pH.
2. Study of Human Salivary Amylase in Relation to Temperature.
2. Estimation of Oxygen Consumption in a Fish with Reference to Body Weight.
3. Detection of Nitrogenous Waste Products in Fish Tank Water, Frog Tank Water, Bird Excreta and Mammalian Urine/ Kidney.
4. Estimation of Haemoglobin using Haemoglobinometer

Appliances used in Physiology

1. Kymograph Unit
 2. Sphygmomanometer- B.P. Apparatus
 3. Stethoscope
 4. Glucometer
- Haemoglobinometer

DEVELOPMENTAL BIOLOGY

Study of the following Prepared Slides, Museum Specimens and Materials:

- 1 Mammalian Testis and Ovary.
2. Mammalian Sperm and Ovum.
3. Egg Types- Insect egg, Frog's Egg, Hen's Egg.
4. Cleavage of Frog egg -2cell,4cell,8cell,16 cell Stages
5. Blastula and Gastrula of Frog.
- 5 Chick Embryonic stages
 - a. 18 Hours (Primitive Streak Stage).
 - b. 24 Hours,
 - c. 48 Hours,
 - d. 72 Hours and
 - e. 96 Hours.
6. Placenta of Shark, Sheep and Man.

C) BIOTECHNOLOGY

1. Study of Models or Specimen.
 - a) Escherichia Coli
 - b) Bacteriophage
 - c) Plasmid
2. Demonstration of P.C.R. Technique, Southern Blot, Electrophoresis-.
3. Visit to Biotechnology Lab and Report.