

**Tentative Schedule for online workshop for M.Sc. & B.Sc. Zoology
(Theory and experimental demonstrations)**

Date 7-7-20	11.00-11.30 am INAUGURATION SESSION	11.30 am to 12.30 Introduction to Cell Biology & Cell Division	1 pm to 2.30 pm Mendel and Gene Idea Introduction to	2.30 pm to 4.00 pm Preparation of Blood Smear, Cell Type Identification and Differential Counts
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Class	Date	Session 1 Theory (1 0.00 am to 11.30 am)	Session 2 Theory (11.30 am to 1.00 pm)	Session 3 Practical (2.00 pm to 3.30 pm)
	8-7-2020	Cell Biology & Cell organelles & Function	Molecular Biology(Nucleic Acid,DNA,RNA,Transcription/Translation)	Enzymes
	9-7-2020	Human Cytogenic Chromosomes & Karyotyping and Chromosomal Abnormalities	Gene Transfer Method in Prokaryotes & cancer	Slide Preparation and Staining, Fecundity Index,
	10-7-20	Gametes and Fertilization Cleavage and Gastrulation	Estimation of Hemoglobin, Erythrocytes Sedimentation Rate (ESR), Coagulation Time	Ecology and Animal Diversity Aquatic, Ecosystems and Animal Diversity, Protected areas (Sanctuaries and National Parks) Extinction and Biodiversity Conservation.
B.Sc. I	11-7-2020	Genetic Code(Theory)	Cell Type, Plasma Membrane, Mitochondria, ER etc.(Theory)	Museum Specimen Study Protozoa, Porifera, Coelenterata, Platyhelminthes (Practical)
	12-7-20	Protein Synthesis and Regulation (Theory)	Genetics: Chromosomal Mutation, Genetic Interaction, Human Genetics (Theory)	Museum Specimen Study & Permanent slide preparation (Practical)
B.Sc. II	13-7-20	Estimation of pH of water/ soil sample. Determination of dissolved oxygen and carbon dioxide in water sample. (Practical)	Non-chordate, Classification and Characteristic	The concept of Biodiversity, Conservation and Management(Th.)
	14-7-20	General discussion Study of the permanent slides of the chick embryos (whole mounts) Study showing the embryology of frog(Practical)	Ecological concept, Environment, Ecosystems(Th.)	Study of wild animals with the help of models/charts/photographs Study of Rare and Endangered flora fauna of the Uttarakhand

				State(Practical)
B.Sc. III	15-7-20	Physiology: Digestive System, Respiratory System, Blood Vascular System, Excretory system(Th.)	Biochemistry: Amino Acids and Peptides. Carbohydrates and Lipids, Vitamins, Proteins &Enzymes(Th.)	Culture of Microbes Sterilization, disinfection, culturing, media preparation, Isolation, culturing, growth and identification of microorganism.(Practical)
	16-7-20	Biostatistics: Data collection and presentation, Measures of Variability/ Dispersion (Th.)	Mean (Arithmetic), Mode and Median. Major Characteristics of each measures of central tendency. Advantage and disadvantage of mean, mode and median.(Th.)	Estimation of hemoglobin, % RBC & WBC and preparation of Haematin crystal. Estimation of presence of sugar and albumin in a sample of human urine.(Practical)

Note: All the Learners of B.Sc. Zoology and M.Sc.Zoology are requested to kindly join the group from the given link so that all the Learners will be given further information through the group.

The Learners please follow this link to join/Registration the WhatsApp group:

<https://chat.whatsapp.com/LePwhz0p65F1VhrXNMXv24>