

Zoology Dept.
Lesson Plan (Even Semester) 2022-23
B. Sc Ist yr.

Paper 1.

⇒ January → - Phylum Annelida : Type study - Pheretima

- Metamorphosis in Annelida
- Trochophore Larva

Phylum Arthropoda :- Type study - Periplaneta

Phylum Mollusca :- Type Study - Pila

- Torsion & detorsion
- Respiration & Feet

⇒ February → Phylum Echinodermata :- Type Study - Asterias

- Echinoderm Larvae & Aristotle's lantern

Phylum Hemichordata :- Type Study - Balanoglossus

Paper II

⇒ March → Heredity & Variations, Varieties of gene interactions, Linkage & Recombination, Sex determination systems, Sex linked & Sex influenced inheritance, Extra-chromosomal & cytoplasmic inheritance

⇒ April → Multiple Allelism, Human Genetics, Embryo errors of metabolism in man, Nucleic acids, Gene mutations, chromosomal ~~Abnormalities~~ Alterations, Numerical chromosomal mutations, Applied Genetics

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Dr Poonam
A. P. of Zoology

Paper I

- ⇒ January → Class Amphibia → Type study of frog
Class Reptilia → origin & evolutionary tree, Extinct
Reptiles, poisonous & non-poisonous snakes, poison apparatus
Type study of lizard
- ⇒ February → Class Aves → Type study of Pigeon
Flight Adaptation, principles of aerodynamics in bird
flight. Bird migration
Class Mammals → Adaptive radiations of mammals,
Dentition. Type study of Rat.

Paper II

- ⇒ March → Circulation → origin, conduction & regulation of
Heart beat. Cardiac cycle, ECG, Cardiac Output, Blood &
lymph components, Blood coagulation, Haemopoiesis
Respiration → Exchange & transport of respiratory gases,
Lung air volumes, O₂ dissociation Curve, Cardiac shift, Control of
respiration
- ⇒ April → Excretion → Urea formation, Urin formation, Counter
current mechanism of urine concentration, Osmoregulation,
micturition
- Neural integration → Nature, origin & propagation of Nerve impulse
Conduct of Nerve impulse
- Endocrinology → Hormone action, various endocrine glands
Reproduction → Gametogenesis, Capacitation of Spermatozoa,
menstrual cycle, oestrous-anoestrous cycle, fertilization,
implantation & gestation

Zoology Dept. (2022-23)
Lesson Plan - B.Sc IIIrd yr

Even Sem.

Paper - I

- ⇒ January → Sugar cane insect pests, Cotton insect pests, wheat insect pests, Paddy insect pests
- ⇒ February → vegetable insect pests, stored grains insect pests, insect control, chemical control, integrated pest management, important bird and rodent pests & their management

Paper - II

- ⇒ March → Aims & scope of developmental biology, structure of sperm & ova, Gametogenesis, Fertilization, Parthenogenesis, different types of eggs & pattern of cleavage, Blastulation, Fate map construction in frog and chick
- ⇒ April → Gastrulation & formation of 3 germ layers in frog & chick. Elementary knowledge of invertebrates
- Extra-embryonic membranes :- Structure & significance, competence, determination & differentiation, Regeneration

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