Name of Assistant Professor: Dr. Pooja Jakhar

Class: B.Sc. I (1st Semester) Subject: Zoology (DSC) Name of paper - Animal diversity-I, C24ZOO101T

Lesson Plan: 14th July to 24th Nov 2025

Topic Covered
Phylum Protozoa: General characters and classification up to class
level
Type study of Plasmodium
Phylum Porifera: General characters and classification up to class level,
Type study of Sycon.
Phylum Coelentrata: General characters and classification up to class level
Type Study of Obelia
Phylum Platyhelminthes and Aschelminthes: General characters and
classification up to class level
Type study of Liver Fluke (Fasciola hepatica).
Phylum Annelida: General characters and classification up to class
Level, Test
Type study of Earthworm (Pheretima posthuma).
Phylum Arthropoda: General characters and classification up to class
level
Type study of Cockroach (Periplaneta americana)
Phylum Mollusca: General characters and classification up to class
level, Test
Type study of Pila.
Phylum Echinodermata: General characters and classification up to
class level,
Phylum Echinodermata: General characters and classification up to
class level, Type study of Sea star (Asterias)
Phylum Hemichordata: General characters of Hemichordates
Revision

Signature of Teacher

Name of Assistant Professor: Dr. Pooja Jakhar

Class: B.Sc. 11 (3rd Semester) Subject: Zoology (DSC)

Name of paper: Biomolecules and Mammalian Physiology (C24ZOO301T)

Lesson Plan: 14th July to 24th Nov 2025

Wecks	Topic Covered
Week 1(14 th to 19 th July)	Introduction, classification, structure, function and general properties of proteins
Week 2(21th July to 26th july)	Nomenclature, classification and mechanisms of enzyme action; factors affecting enzyme activity, inhibition of enzymes.
Week 3 (28th July to 2nd Aug)	Vitamins and Minerals. Transport through bio-membranes (Active and
Week 4 (04 Aug to 09Aug.)	Introduction, classification, structure, function and general properties of carbonydrates and lipids. Digestion of proteins, carbohydrates, lipids
Week 5 (11Aug to 16Aug)	Muscles: ultra-structure of skeletal muscle, neuromuscular junction. Bio- chemical and physical events during muscle contraction, single muscle twitch, tetanus, muscle fatigue, muscle tone
Week 6 (18 th Aug to 23 rd Aug)	Oxygen debt, Cori's cycle, single unit smooth muscles, their physical and functional properties.
Week 7(25th Aug to 30 th Aug)	Circulation: Origin, conduction and regulation of heart beat; cardiac cycle. Composition and functions of blood & lymph; Mechanism of coagulation of
Week 8(1 st Sep to 6th Sep)	Respiration: Exchange of respiratory gases, transport of gases, lung air volumes, oxygen dissociation curve of haemoglobin, Bohr's effect, Hamburger's phenomenon (Chloride shift), Myoglobin.
Week 9 (8th Sep – 13th Sep)	Excretion: Patterns of excretory products VIZ. Animomotene, discounter-current mechanism ornithine cycle; Urine formation, composition of Urine, counter-current mechanism ornithine cycle; under comparison microrition. Test
Week 10 (15th Sep-20 th Sep)	Neural Integration: Nature, origin and propagation of herve impulse along with
Week 11 (22 nd Sep-27th Sep)	Conduction of nerve impulse across synapse, synaptic delay and synapse
Week 12 (29th Sep-04 th Oct.)	Functions of different endocrine glands, horrmonal disorders. Reproductions
Week 13 (6 ^{th Oct.} -11 th Oct.)	Oogenesis, ovulation, formation of corpus fucum, occurred to Menstrual cycle in human, Test
Week 14 (13 th Oct – 18 th Oct)	Fertilization, implantation and gestation, parturition.
Week 15 (27 th Oct – 31 th Oct)	Tests and Revision Phylum Echinodermata: General characters and classification up to
Week 16 (27 th Oct – 31 th Oct)	Land Con Clar LASICHOST
Week 17 (3 rd Nov-8 th Nov)	Phylum Hemichordata: General characters of Hemichordates
Week 18 (10 th Nov- 15 th Nov)	Revision & Test

Signature of Teacher

Name of Assistant Professor: Dr. Pooja Jakhar Class: B.Com. II (3rd Semester) Subject: Zoology (MDC)

Name of paper: Basics of Zoology III (C2MDC329T)

Lesson Plan: 14th July to 24th Nov 2025

Weeks	Topic Covered
Week 1(14th to 19th July)	Humans Skeleton and bones
Week 2(21 th July to 26th july)	Humans Skeleton and bones
Week 3 (28 th July to 2 nd Aug)	Joints, cartilage and ligaments
Week 4 (04 Aug to 09Aug.)	Interaction between skeletal muscles and nerves.
Week 5 (11Aug to 16Aug)	ABO and RH system in humans
Week 6 (18 th Aug to 23 rd Aug)	Methods of determination, importance and dangers of blood transfusion
Week 7(25th Aug to 30 th Aug)	Human cell and chromosomes
Week 8(1 st Sep to 6th Sep) Week 9 (8 th Sep – 13th Sep)	Cell as unit of life, morphology and functional elements of human chromosome Sex Determination: Definition, different types and scope, Test
Week 10 (15th Sep-20 th Sep) Week 11 (22 nd Sep-27th Sep)	Respiration in humans: Anatomy and physiology of respiration, Factors affecting change of gases and diffusing capacity. Introduction to Dental Formula, types and development of tooth
Week 12 (29th Sep-04 th Oct.)	Concept of evolution, theory of Darwinism
Week 13 (6 ^{th Oct.} -11 th Oct.)	Neo-Darwinism, Genetic drift,
Week 14 (13 th Oct – 18 th Oct)	Hardy Weinberg Law Human Evolution: Origin and evolution
Week 15 (27 th Oct – 31 th Oct)	Adaptive evolution.
Week 16 (27 th Oct – 31 th Oct)	Revision & Test
Week 17 (3 rd Nov-8 th Nov)	Revision & Test
Week 18 (10 th Nov- 15 th Nov)	Revision & Test

Signature of Teacher

Name of Assistant Professor: Dr. Pooja Jakhar Class: B.Sc. III (5th Semester) Subject: Zoology

Name of paper: ZOO 501 L. Applied Zoology I & ZOO 502 L. Applied Zoology II

Lesson Plan: 14th July to 24th Nov 2025

	Description: 14 July to 27 1.0. 2.2.
Weeks	Topic Covered
Week 1(14th to 19th July)	Host, Definitive host, Intermediate host, Parasitism, Symbiosis, Commensalism, Reservoir
	Lef disease: Tuberculosis typhoid
Week 2(21th July to 26th july)	Zoonosis Transmission, Prevention and control of diseases: Tuberculosis, typhoid
Week 3 (28th July to 2nd Aug)	Biology, Control and damage caused by Pyrilla perpusilla and Papilio demoleus
Week 4 (04 Aug to 09Aug.)	Biology, Control and damage caused by Callosobruchus chinensis and Tribolium castaneum,
	Principles of poultry breeding
Week 5 (11 Aug to 16 Aug)	Management of breeding stock and broilers, Processing and preservation of eggs, Genetic
	improvements in aquaculture industry
Week 6 (18th Aug to 23rd Aug)	Brief account of Rickettsia prowazekii, Borrelia recurrentis and Treponema pallidum, Life
	history and pathogenicity of Plasmodium vivax Life history and pathogenicity Trypanosoma gambiense, Life history and pathogenicity of
Week 7(25th Aug to 30 th Aug)	Life history and pathogenicity Trypanosoma gambiense, Bre history and Bre history
	Ancylostoma duodenate and w denoterate and Medical importance and Medical importance and control of Pediculus humamus corporis, Medical importance and
Week 8(1 st Sep to 6th Sep)	Medical importance and control of Tedestras Administration and artificial
1 2 (ath Com 12th Sen)	control of Anopheles, Culex Medical importance and control of Aedes, Xenopsylla cheopis, Preservation and artificial
Week 9 (8 th Sep – 13th Sep)	incomination in cattle
con con	Induction of early puberty and synchronization of estrus in cattle, Preservation and artificial
Week 10 (15th Sep-20 th Sep)	
Week 11 (22 nd Sep-27th Sep)	Induction of early puberty and synchronization of estrus in cattle
1	Assignment -2, Test-2
Week 12 (29th Sep-04 th Oct.)	Induced breeding and transportation of fish seed
	Life history and pathogenicity of Entamoeba histolytica, Biology, Control and damage caused
Week 13 (6 ^{th Oct.} -11 th Oct.)	by Sitophilus oryzae
Week 14 (13 th Oct – 18 th Oct)	Biology, Control and damage caused by Helicoverpa armigera
Week 15 (27 th Oct – 31 th Oct)	Revision & Test
Week 16 (27 th Oct – 31 th Oct)	Revision & Test
Week 17 (3 rd Nov-8 th Nov)	Revision & Test
Week 18 (10 th Nov- 15 th Nov)	Revision & Test
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