

LESSON PLAN (Session 23-24)

Semester –Odd

Department: Zoology

Class: BSC I

Name of the faculty: Tarandeep Kaur & Neha Dhiman

Paper code: B23-ZOO-103

Nomenclature of the paper: Animal Diversity of Non- Chordates

Month	Week	Topics to be covered	Assignments
July	24.07.23-31.07.23	Basics of Invertebrates General characteristics and Classification of Phylum Coelenterata	Terminology
August	1.08.23-05.08.23	Terminology used in invertebrates Obelia – Systematic position, habitat, habits, morphology and Difference between polyp and medusa form.	Terminology
	07.08.23-12.08.23	Terminology used Polymorphism in obelia –Hydranth, blastostyle, medusa and physiology of obelia	Related Diagrams
	14.08.23-19.08.23	Phylum-Protozoa- Plasmodium Reproduction and life history of obelia, alternation of generation, homology between Polyp and medusa	Related Diagrams
	21.08.23-26.08.23	Phylum Porifera, Sycon -External Morphology, canal System, Histology, skeleton General Characteristics and Classification of Phylum Platyhelminthes and Aschelminthes.	Related Diagrams
	28.08.2-31.08.23	Sycon -Reproductive System, Development and Adaptations Fasciola hepatica – Systematic position, habitat, habits, morphology	Related Diagrams
September	01.09.23-09.09.23	Test Of Plasmodium Phylum Annelida-Basics Fasciola hepatica – Body wall, Parenchyma, digestive system, excretory system	Related Diagrams
	11.09.23-16.09.23	Pheretima -External Morphology Fasciola hepatica – Nervous system, Respiratory system, Sense organs, Reproductive system	Related Diagrams
	18.09.23-23.09.23	Fasciola hepatica – Development and Life History, Nature of life history,	Related Diagrams

		Pathogenecity of <i>Fasciola</i> , Parasitic Adaptations Body Wall and Digestive System Of Pheretima Circulatory System and Nervous System Of Pheretima	
	25.09.23-30.09.23	Reproductive System of Pheretima General Characteristics and Classification of Mollusca.	Related Diagrams
October	02.10.23-7-10.23	Diagrams Of Plasmodium and Sycon Pila globosa – Systematic position, habitat, habits, morphology, Microscopic structure of Shell	Related Diagrams
	09.10.23-14.10.23	Sessionals	
	16.10.23-21.10.23	Basics Of Arthropoda Periplaneta -Systematic Position, Habitat, Habits, External Morphology Pila globosa – Physiology of Digestive system, Respiratory system, Nervous system ,Blood vascular system	Related Diagrams
	23.10.23-31.10.23	Periplaneta - Digestive and Respiratory System, Excretory System Pila globosa –, Sense organs, reproductive system, fertilization, ovulation, and Development.	Related Diagrams
November	1.11.23-04.11.23	Periplaneta - Reproductive System General Characteristics and Classification of Echinodermata Asterias – Systematic Position, Habitat, Habits, Morphology, Water vascular system.	Related Diagrams
	06.11.23-10.11.23	Asterias – Circulatory System. General Characteristics of Hemichordata with Example. Important Questions and Practice	Related Diagrams
	10.11.23-16.11.23	Diwali Vacations	
EVEN SEMESTER			
Paper Code: B23-ZOO-201 Nomenclature of the Paper: Animal Diversity of Chordates			
Month	Week	Topics to be covered	Related Diagrams
January	01.01.24-06.01.24	Salient Features of Chordata and it's Classification	Related Diagrams
	08.01.24-13.01.24	Herdmania- Systematic Position, External Morphology and Test	Related Diagrams
	15.01.24-20.01.24	Digestive System and Circulatory System of Herdmania	Related Diagrams
	22.01.24-27.01.24	Remaining Systems of Herdmania Affinities of Urochordata	Related Diagrams

	29.01.24-31.01.24	Pisces-General Characters and Classification Scales and Fins	Related Diagrams
February	01.02.24-10.02.24	Type Study of Labeo...All Systems	Related Diagrams
	12.02.24-17.02.24	Amphibia-General Characters and Classification up to class level Systematic Position, Habit, Habitat and Morphology of Rana, Skin of Rana	Related Diagrams
	19.02.24-24.02.24	All Systems of Rana	Related Diagrams
	26.02.24-29.02.24	Parental Care and Neoteny in Amphibia	Related Diagrams
March	01.03.24-09.03.24	Reptilia- General Characters and Classification up to class level	Related Diagrams
	11.03.24-16.03.24	Aves- General Characters and Classification up to class level	Related Diagrams
	18.03.24-22.03.24	Flight /Aerial adaptations in birds Archaeopteryx as missing link	Related Diagrams
	23.03.24-31.03.24	Holi Vacations	Related Diagrams
April	01.04.24-06.04.24	Mammalia- General Characters and Classification up to class level Systematic Position, Habit, Habitat and Morphology and Skin of Rattus	Related Diagrams
	08.04.24-13.04.24	Rat-Digestive System	Related Diagrams
	15.04.24-20.04.24	Respiratory and Circulatory System of Rat	Related Diagrams
	22.04.24-27.04.24	Nervous System, Sense organs and reproduction in Rat	Related Diagrams
	29.04.24-30.04.24	Revision and Diagrams	
May	01.05.24 onwards	Examinations	

LESSON PLAN (Session 23-24)**Semester –Odd****Department: Zoology****Class : BSC II****Name of the faculty: Tarandeep Kaur****Paper -I****Nomenclature of the paper: Life and Diversity of Chordates-I**

Month	Week	Topics to be covered	Assignments
July	24.07.23-31.07.23	Introduction and Terminology of Chordates	Terminologies
August	1.08.23-05.08.23	General Features and Classification of Urochordata	Classification chart
	07.08.23-12.08.23	Herdmania -Systematic Position, External Morphology	Related Diagrams
	14.08.23-19.08.23	Test, Digestive System and Circulatory System of Herdmania	Related Diagrams
	21.08.23-26.08.23	Remaining Systems of Herdmania	Related Diagrams
	28.08.23-31.08.23	Affinities of Urochordata, Test	Related Diagrams
September	01.09.23-09.09.23	General Features and Classification of Cephalochordata	Related Diagrams
	11.09.23-16.09.23	Branchiostoma -Systematic Position, External Morphology, Anatomy	Related Diagrams
	18.09.23-23.09.23	Systems of Branchiostoma	Related Diagrams
	25.09.23-30.09.23	Affinities of Cephalochordata Test of Branchiostoma	Related Diagrams
October	02.10.23-07.10.23	Petromyzon -Systematic Position, Morphology, Anatomy	Related Diagrams
	09.10.23-14.10.23	Physiology of Petromyzon	Related Diagrams
	16.10.23-21.10.23	Pisces-Features and Classification of Osteichthyes	Related Diagrams
	23.10.23-30.10.23	Labeo- Morphology, Anatomy and Digestive System	Related Diagrams
November	1.11.23-04.11.23	Remaining Systems of Labeo	Related Diagrams
	06.11.23-10.11.23	Fins, Scales, Parental Care, Migration in Fishes	Related Diagrams
	10.11.23-16.11.23	Diwali Vacations	
EVEN SEMESTER			
Nomenclature of the Paper: Life and Diversity of Chordates-II			
Month	Week	Topics to be covered	
January	01.01.24-06.01.24	Basics of Amphibia	Related Diagrams
	08.01.24-13.01.24	Systematic Position, Habit, Habitat and Morphology of Rana, Skin of Rana	Related Diagrams

	15.01.24-20.01.24	Basics of Reptilia, Systematic Position, Habit, Habitat and Morphology of Rana, Skin of Hemidactylus	Related Diagrams
	22.01.24-27.01.24	Basics of Aves, Systematic Position, Habit, Habitat and Morphology of Rana, Skin of Columba	Related Diagrams
	29.01.24-31.01.24	Basics of Mammalia, Systematic Position, Habit, Habitat and Morphology of Rana, Skin of Rattus	Related Diagrams
February	01.02.24-10.02.24	Digestive Systems of all 4 vertebrates	Related Diagrams
	12.02.24-17.02.24	Respiratory Systems	Related Diagrams
	19.02.24-24.02.24	Hearts, Arterial and Venous Systems	Related Diagrams
	26.02.24-29.02.24	Brains, Cranial and Spinal Nerves	Related Diagrams
March	01.03.24-09.03.24	Eyes, Ears and all Sense organs of Rana and Hemidactylus	Related Diagrams
	11.03.24-16.03.24	Eyes, Ears and all Sense organs of Columba and Rattus	Related Diagrams
	18.03.24-22.03.24	Urinogenital Systems of all 4 Vertebrates	Related Diagrams
	23.03.24-31.03.24	Holi Vacations	
April	01.04.24-06.04.24	Parental Care in Amphibia, Origin and Evolutionary Tree of Reptilia	Related Diagrams
	08.04.24-13.04.24	Extinct Reptiles, Poisonous and Non-poisonous snakes, Poison apparatus in snakes	Related Diagrams
	15.04.24-20.04.24	Fight Adaptation, Aerodynamics, Migration	Related Diagrams
	22.04.24-27.04.24	Adaptive Radiations of Mammals, Dentition	
	29.04.24-30.04.24	Revision and Tests	
May	01.05.24 onwards	Examinations	

LESSON PLAN (Session 23-24)

Semester -Odd

Department: Zoology

Class : B.sc 2nd Year

Name of the faculty: Ms. Neha

Paper : II

Nomenclature of the paper: Mammalian Physiology – I

Month	Week	Topics to be covered
August	01.08.23-05.08.23	Biochemistry: Introduction and scope Definition, Properties of living organisms, Protoplasm, Biological Molecules, Chronology of Biochemistry & scope. Protein : Introduction, Classification, Structure, & Functions Introduction, Definition, Chemical Structure, Protein specificity.
	07.08.23-12.08.23	Physical configuration Of proteins, Chemical bond involve in protein structure, Physical and chemical properties of proteins, classification Of proteins, Biological role of Proteins.
	14.08.23-19.08.23	Carbohydrates : introduction, classification, structure, & functions Introduction, definition, percentage, chemical composition, classification, structure of carbohydrates, monosaccharides, oligosaccharides, polysaccharies, isomerism, epimers, mutarotation , biological significance of carbohydrates.
	21.08.23-26.08.23	Lipids: introduction, classification, structure, & functions Lipids introduction classification structure and functions; introduction, definition, chemical composition, classification of lipids, simple lipids, neutral fats, saturated fatty acids, unsaturated fatty acids, prostglandins, types of fatty acids, formation of fats, function of neutral lipids
	28.08.23-31.08.23	Waxes, physical properties of fats, chemical properties of fats, compound or conjugated lipids, phospholipids, functions of compound lipids, derived fats, sterols, cholesterol, ergosterol, bile acids, steroid hormones.
September	01.09.23-09.09.23	Enzymes; Introduction, importance of enzymes, definition, chemical nature, apoenzymes and holoenzymes,

		properties of enzymes, catalyst and enzymes, mechanism of enzyme action, energy Kinetics of enzymes
	11.09.23-16.09.23	Factors affecting enzyme activity, specificity of enzymes, inhibition of enzymes, competitive inhibition, non-competitive inhibition, allosteric modulation or feedback inhibition, regulation of enzyme activity, the operon system.
	18.09.23-23.09.23	Biophysics: buffer systems and transport through biomembranes; Buffer system and their importance, introduction, relationship between PH and pk, buffer systems of the body Fluids, bicarbonate buffer system, phosphate buffer system protein buffer system, other buffer systems of human body, transport through biomembrane
	25.09.23-30.09.23	Passive transport, introduction, passive processes, diffusion, demonstration of diffusion, factors affecting the rate of diffusion, significance of diffusion, facilitated diffusion, characteristics, significance, dialysis, advantage, proofs, drawbacks, Osmosis, significance of osmosis, active processes
October	02.10.23-07-10.23	Active transport mechanism, energetics of active transport, types of active transport, primary active transport, secondary active transport, significance of active transport, endocytosis and exocytosis, endocytosis, endocytosis and active transport, endocytosis in amoeboid locomotion, exocytosis, significance of transport through biomembranes.
	09.10.23-14.10.23	Sessional exam Nutrition; Nutritional components, food, components of food, carbohydrates, proteins, lipids, vitamins, types of vitamins, fat soluble vitamins, water soluble vitamins, minerals
	16.10.23-21.10.23	Global iodine deficiency disorder day, water, roughage, malnutrition, nutrition, types of Nutrition, types of digestion digestion and its types, types of feeding mechanism, digestion of dietary constituents, digestion of carbohydrates, lactose intolerance, digestion of proteins, digestion of fats, digestion of nucleic acids, biological importance of mucus, biological importance of bile
	23.10.23-30.10.23	Absorption of nutrients, definition, absorptive power of different regions of alimentary canal, physico – chemical mechanism of absorption, absorption of digested food components, absorption of Carbohydrates, absorption of amino

		acid, absorption of fats, absorption of cholesterol, absorption of other substances, assimilation, control of secretion of digestive juices, control on saliva secretion, control on gastric secretion, control on pancreatic secretion, control of bile secretion, secretion of intestinal juice
November	01.11.23-04.11.23	Muscle physiology; Introduction, characteristics of muscles, types of muscular tissue, striated muscles, smooth muscle fibres, cardiac muscles, red and white skeletal muscle fibres, types of smooth muscles, myofibrillar filaments, neuromuscular Junction, physical changes in muscle contraction, biochemical changes in muscle contraction, energy for muscle contraction, theory of muscle contraction, isotonic contraction, isometric contraction, single muscle twitch, muscle fatigue, oxygen debt.
	06.11.23-10.11.23	Bones and bone disorders; Structure of bones, types of bones, growth and resorption of bones, effect of ageing on skeleton. Revision, test and practice questions.
Vacations	10.11.23-16.11.23	Diwali vacations
EVEN SEMESTER		
Paper-II Nomenclature of the Paper: Mammalian Physiology – II		
Month	Week	Topics to be covered
January	01.01.24-06.01.24	Circulation; Origin and conduction of Heartbeat, regulation of Heartbeat, Sinu auricular node as a pacemaker of the heart cardiac cycle,
	08.01.24-13.01.24	Electrocardiogram, cardiac output, blood pressure, human blood, blood coagulation, anticoagulant role of vitamin K in blood clotting
	15.01.24-20.01.24	Test Defects in blood coagulation, haemopoiesis, erythropoiesis, leucopoiesis.
	22.01.24-27.01.24	Respiration; Need of respiration, respiration, types of respiration, principle of exchange of gases, characteristics of the respiratory surface, pulmonary air volumes and lung capacities
	29.01.24-31.01.24	Nature of Pulmonary or respiratory membrane, mechanism of exchange of gases, composition of respiratory gases in different stages
February	01.02.24-10.02.24	Test

		Transport of respiratory gases in blood, transport of oxygen, transport of carbon dioxide, haldane effect on carbon dioxide transport, oxygen dissociation curve, oxygen dissociation curve of myoglobin, control of respiration, conclusion
	12.02.24-17.02.24	Excretion; Need of excretion, excretion, type of excretory products, patterns of excretion, excretory system of man
	19.02.24-24.02.24	Histology, structure of nephron, renal blood supply, Pressures in the renal circulation, Ornithine cycle, physiology of urine formation
	26.02.24-28.02.24	Composition of normal urine, Abnormal constituents of urine, expelling of urine, counter current mechanism, osmoregulatory role of Kidneys
March	01.03.24-09.03.24	Sessional exam Neural integration; Neuron, types of nerve fibres, properties of nerve fibres
	11.03.24-16.03.24	Graded potential, mechanism of conduction of nerve impulse, generation of Nerve impulse, repolarization of nerve fibre, propagation of nerve impulse along a non modulated nerve fibres,
	18.03.24-22.03.24	Test Saltatory conduction of nerve impulse, conduction of nerve impulse to a synapse, synaptic delay, synaptic fatigue, interpretation of nerve impulses, speed of nerve impulse.
	23.03.24-31.03.24	Holi vacations
April	01.04.24-06.04.24	Chemical integration; Endocrine glands, hormones, Discovery, nomenclature, chemical nature of hormones, general functions of hormones
	08.04.24-13.04.24	Properties of hormones, hormones vs enzymes, thyroid, parathyroid, adrenal glands, hypothalamus, pituitary gland,
	15.04.24-20.04.24	Test Pancreas gonads, testis, ovaries, types of endocrine glands or hormones, mechanism of action of quick acting hormones, mechanism of action of steroid hormones
	22.04.24-27.04.24	Reproduction; Physiology of male reproduction and its control, spermatogenesis, hormonal control of spermatogenesis, physiology of female reproduction and its controls, oogenesis, homologous control of oogenesis, comparison between spermatogenesis and oogenesis, structure of gametes, over capacitation of spermatozoa

	29.04.24-30.04.24	Ovulation, Corpus luteum, menstrual cycle, oestrous cycle, fertilization, implantation, parturition. Revision, Test and practice questions.
May	01.05.24 onwards	Examinations

LESSON PLAN (Session 23-24)

Semester -Odd

Department: Zoology

Class : B.sc 3rd year

Name of the faculty: Ms. Neha

Paper- I

Nomenclature of the paper: Environmental biology

Month	Week	Topics to be covered
August	01.08.23-05.08.23	Ecology: Introduction and Basic concepts; Introduction, some Important Definitions Of ecology, Forms of ecology, Chronology of ecology, Ecology and Levels of organization, Relationships between Ecology and other sciences, Significance of Ecology, Habitat, Microhabitat and Ecological Niche, Ecological Equivalents.
	07.08.23-12.08.23	Environment: Abiotic and Biotic Factors; Introduction, Abiotic Factors – Climatic Factors; Light, Temperature, Humidity, Wind, Rainfall, Water, Atmospheric gases. Edaphic Factors; Soil, Topographic Factors. Biotic Factors; Intra – specific interactions, Inter – specific Interactions
	14.08.23-19.08.23	Ecosystem: Basic concepts; Introduction, Definition, Term, Examples, Kinds and size of Ecosystems, Structure of an ecosystem, Basic Requirements of an ecosystem, Dynamics of Ecosystem, Examples of ecosystem, Deep sea – an Incomplete ecosystem, Trophic Levels, Food Chain, Food web, Energy Flow in an ecosystem, Ecological pyramids, Productivity, Ecological Energetics.
	21.08.23-26.08.23	Biomes: Major Ecosystem; Definition, Introduction, Types of Biomes, Terrestrial biomes; Tundra, Taiga, Temperate deciduous Forests, Tropical rain forests, Tropical deciduous forests, Chaparral, Tropical Savannah, temperate grassland, Desert. Aquatic Biomes; Marine biomes (open seas, Coastal regions, Estuaries), fresh water biomes; Lakes and ponds, streams and rivers, Marshes. Man – Made Ecosystems, Boundaries of Ecosystems.
	28.08.23-31.08.23	Biosphere and Biogeochemical cycles; Introduction, Definition, History, Extension and components, Sub- Divisions, Closed and open

		systems, Matter and energy, Biogeochemical cycles, Types of biogeochemical cycles, common biogeochemical cycles, Flow of energy, Ten percent law.
September	01.09.23-09.09.23	Test Population: Growth and regulation; Population, characteristics of a population, Demographic Transition, growth curve, regulation of population, significance of studying human population, Trends in world population, Population Trends in india, Determination of human Population growth rate, Factors determining growth rate.
	11.09.23-16.09.23	Limit on human Population growth, Population in Developeped vs developing countries, Causes Increases in Human Population, Population and Economic Development, Population as a resource, Malthus Theory of Human Population growth, Factors controlling population density, Reproductive Health, Methods to control over Population, Birth Control Measures, Amniocentesis, Inequality of sexes, Test tube babies
	18.09.23-23.09.23	Biodiversiy and natural resources; Biodiversity;Introduction, Levels or components of biodiversity, Community diversity, Gradients of biodiversity,Geography and biodiversity,Conservation of biological diversity, Uses of Biodiversity, threats to biodiversity, Extinction of species, The IUCN red list threat categories, Conservation of biodiversity, International efforts for conservation of wildlife, WildLife organization, biodiversity Conservation efforts in india, Protected areas in india, Sacred forests and sacred lakes, Exsitu conservation Strategies,hot spots of biodiversity.
	25.09.23-30.09.23	Natural resources and their conservation ; Man – The most dominant animal of biosphere, Noosphere, natural resources, Classes of Natural resources, Water resources, soil, mineral resources, grassland, energy, Wet lands, flora and fauna, Management and Replenishment of natural resources, forests, conservation of forests, forest Management, Deforestation, Forests and wildlife laws, Environmental ethics and resource use.
October	02.10.23-07-10.23	Migration: Fishes and birds; Migration in fishes; Reasons for Migration, examples, types of fish migration, salmon Migration, fishes showing seasonal migration, Petromyzon Migration.

		Migration in birds; introduction, types of bird migration, Purpose of bird migration, cause of bird migration, Range of migration, speed migration, altitude of migration, regularity of migration, routes of migration, guiding mechanism in bird navigation, stimulus for bird migration.
	09.10.23-14.10.23	Sessional exam Parental Care; Introduction, care of the eggs and young ones, Parental care in birds, parental care in mammals.
	16.10.23-21.10.23	Biotic community and population interactions; Definition, introduction, characteristics, Dominant species, genus vs community, community periodicity, Interspecific interactions, Proto – cooperation , Mutualism, commensalism, scavenging, predation, Parasitism, parasitoidism, competition, Amensalism, Mimicry, Ecological or biotic succession, Hydrosere, Lithosere.
	23.10.23-31.10.23	Environmental Pollution; Definition, introduction, Pollutants, Air Pollution – types of source of air pollution , Major air Pollutants and effect of air pollution, Effect of air Pollution on plants, animals and human beings, Photochemical smog, effect of air on climate, effect of acid rain, carbondioxide, green house effect and global warming, International conferences on global warming, International conferences on global warming, Bhopal tragedy, control of air pollution, stratospheric ozone depletion, carbon dioxide fertilization effect, recent steps taken to reduce air pollution. water pollution; cause of water pollution, source of water pollution, effect of water pollution, Yamuna action plan, Ganga action plan, Biological magnification.
November	01.11.23-04.11.23	marine pollution; control of waste water, recent reports on water pollution and its control. soil pollution; types of soil pollutant, types of soil pollution, salination of soil, prevention of soil pollution, effects of soil pollution, deforestation, urban solid waste management, Land Degradation, Land management. Radioactive pollution; types of radioactive pollution, effects of radioactivity, India's management of nuclear wastes, types of radiations, sensitivity to radiations, control of radioactive pollution, nuclear disasters. noise pollution; effect of noise pollution, source of noise pollution, control of noise pollution, globalisation of environmental problems.

	06.11.23-10.11.23	Revision, Test and Practice questions
Vacations	10.11.23-16.11.23	Diwali Vacations
EVEN SEMESTER		
Paper: II Management-II	Nomenclature of the Paper: Aquaculture and pest	
Month	Week	Topics to be covered
January	01.01.24-06.01.24	Fish seed production ; Definition, Natural fish seed resources, Riverine spawn resource investigation technique.
	08.01.24-13.01.24	Hatchery seed production, Artificial fertilization, Ecological factors affecting induced breeding.
	15.01.24-20.01.24	Fish feed ; Introduction ; food and feeding habits of some culturable fresh water fishes, Artificial food, pelleting, Use of growth promoting hormones for fish growth.
	22.01.24-27.01.24	Techniques of fish culture ; Introduction, Pond cultures, various types of ponds, arrangement of various types of fish ponds, Pond maintenance.
	29.01.24-31.01.24	Test Running water culture, Recycled water culture, Cage culture, Poly culture.
February	01.02.24-10.02.24	Management and marketing of fishes and their products ; management of fishery, economics of fish farming, Marketing of fishes and their products
	12.02.24-17.02.24	Latest advancements in aquaculture technology ; biotechnology in fisheries, cryopreservation of gametes, Monosex culture.
	19.02.24-24.02.24	Test Sex reversal, Hybridization, transgenic fish.
	26.02.24-28.02.24	Insect Pests of stored grains ; Introduction, Six Stored grain pests their systematic position, habits and nature of damage caused.
March	01.03.24-09.03.24	Sessional exam Life cycle and control of <i>Trogoderma granarium</i> .
	11.03.24-16.03.24	Biological control of insects ; Definition, requirements, Precautions, Problems, Characteristics of a natural enemy, natural enemies used in biological control, significance.
	18.03.24-22.03.24	Chemical control of insects ; Definition, classification – Pesticides, attractants, repellents, insecticides.
	23.03.24-31.03.24	Holi Vacations
April	01.04.24-06.04.24	Integrated pest management ; Introduction, Methods of control of insect pests – Cultural Methods of control, Physical and Mechanical

		Methods,
	08.04.24-13.04.24	Test Biological control methods, Legal control, Chemical control, Use of hormones, pheromones and antifeedants.
	15.04.24-20.04.24	Birds Pests and their management; Bird pests, bird pest species of india, Nature and extent of damage, Management of Pestiferous birds.
	22.04.24-27.04.24	Rodent pests and their Management; rodent pest species of india, Nature and extent of damage, Methods of rodents control.
	29.04.24-30.04.24	Revision, Test and Practice questions.
May	01.05.24 onwards	Examinations

LESSON PLAN (Session 23-24)

Semester -Odd

Department: Zoology

Class : BSC III

Name of the faculty: Tarandeep Kaur

Nomenclature of the paper : Evolution and Developmental Biology

Month	Week	Topics to be covered	Assignments
July	24.07.23-31.07.23	Developmental Biology- Introduction	Terminology
August	1.08.23-05.08.23	Spermatogenesis	Related Diagrams
	07.08.23-12.08.23	Oogenesis	Related Diagrams
	14.08.23-19.08.23	Fertilization	Related Diagrams
	21.08.23-26.08.23	Parthenogenesis	Related Diagrams
	28.08.23-31.08.23	Cleavage and Blastulation	Related Diagrams
September	01.09.23-09.09.23	Frog Embryology	Related Diagrams
	11.09.23-16.09.23	Chick Embryology	Related Diagrams
	18.09.23-23.09.23	Embryonic Induction, Extra Embryonic Membranes	Related Diagrams
	25.09.23-30.09.23	Regeneration, Revision	Related Diagrams
October	02.10.23-07-10.23	Evolution- Origin of Life	Related Diagrams
	09.10.23-14.10.23	Sessionals	Related Diagrams
	16.10.23-21.10.23	Morphological and Anatomical Evidences	Related Diagrams
	23.10.23-31.10.23	Embryological and Paleontological Evidences	
November	1.11.23-04.11.23	Theories of Evolution	Related Diagrams
	06.11.23-10.11.23	Modern's Concept of Evolution Micro, macro and mega Evolution	Related Diagrams
	10.11.23-16.11.23	Diwali Vacations	Related Diagrams
EVEN SEMESTER			
Nomenclature of the Paper: Aquaculture and Pest Management-I			
Month	Week	Topics to be covered	
January	01.01.24-06.01.24	Basics of Insect Pests, Sugarcane Pests	Related Diagrams
	08.01.24-13.01.24	Pests of Wheat and Cotton	Related Diagrams
	15.01.24-20.01.24	Pests of Paddy	Related Diagrams
	22.01.24-27.01.24	Pests of Vegetables	Related Diagrams
	29.01.24-31.01.24	Test of Pests	Related Diagrams
February	01.02.24-10.02.24	Introduction to World Fisheries	Related Diagrams

		Fresh Water and Marine Fishes of India	
	12.02.24-17.02.24	Fishing Gears and Fishing Crafts	Related Diagrams
	19.02.24-24.02.24	Fin Fishes and Crustaceans	Related Diagrams
	26.02.24-29.02.24	Molluscs and their Cultures	Related Diagrams
March	01.03.24-09.03.24	Seminars Given by Students	Related Diagrams
	11.03.24-16.03.24	Seminars Given by Students	Related Diagrams
	18.03.24-22.03.24	Pearl Fishery and latest Techniques	Related Diagrams
	23.03.24-31.03.24	Holi Vacations	Related Diagrams
April	01.04.24-06.04.24	Different Types of Nets and Happs	Related Diagrams
	08.04.24-13.04.24	Lacustrine Fisheries	Related Diagrams
	15.04.24-20.04.24	Brackish Water Culture	Related Diagrams
	22.04.24-27.04.24	Revision	
	29.04.24-30.04.24	Important Questions and Tests	
May	01.05.24 onwards	Examinations	