

TEACHING PLAN 2025-26(ODD SEMESTER)

Aug. (Tent.) 2025 to Nov. 2025)

Name : - Dr. Vivek anand

Department:- Zoology Dept. (Fish and Fisheries)

Sub:- Zoology

Month	1st Week	2nd Week	3rd Week	4th Week
August	-Introduction to World fisheries	-River system	- Cold water fisheries	- Fishing crafts
	Production , utilization and demand	- Reservior Fisheries	- Tank Fisheries , Capture and culture fisheries	- Condt.
	- Fresh Water fisheries of India.	- Pond Fisheries	-Test	- Revision
	- Introduction to world fisheries	- River system	- Cold Water Fisheries	- Fishing crafts
	- Production , utilization and demand	- Reservior Fisheries	- Tank Fisheries, capture and culture fisheries	- Condt.
	- Fresh Water fisheries of India.	- Pond Fisheries	- Test	- Revision
September	- Fishing Gears	- Fin Fisheries	Mollusks contd.	- Hatcheries production
	- Condt.	- Crustaceans	Natural seed Resources	- Sources of food
	test	- Culture of Molluscas	Assesment and collection of seeds	- Revision
	-Fising Gears	- Fin Fisheries	- Natural seed resources	- Hatcheries production
	- contd.	- Crustacean	-Assesment and collection of seeds	- Sources of food
	-Test	- Culture of Molluscas	- Revision	- Revision
October	-Feed Composition	- Field culture ponds	-Cage Culture	- Polyculture
	- Test	- Running water culture	- Test	- Culture Biotechnology
	- Assignment	-Cage culture	- Recycled water culture	-test
	-Feed Composition	- Field culture pond	-Cage culture	- Polyculture
	-Test	- Running water cultur	-contd.	- Culture Biotechnology
	-Assignment	- Cage culture	-recycled water culture	-Culture Biotechnology contd.
November	- Cryopeservation	- Gene Manuplation Condt.	- Test	-Seminars
	- Gene Manupulation	- Condt.	-contd.	-contd.
	- Discussion	-Test	Revision	- Revision
	-Cryopreservation	- Gene Manuplation Condt.		
	-Gene manipulation	- Condt.		-

Teacher Signature

TEACHING PLAN (2022-23): ODD SEMESTER
(Sep. 2022 (Tent.) to Dec. 2022)
Pt. J.L.N. Govt. College, Faridabad

Name of Assistant/ Associate Professor: Dr. Vivek Anand Chandrwal

Department : Zoology

Class & Section: B.Sc. I (Ist. Sem.): Sec. A & Sec. B

Paper: Cell Biology

Month	1 st week	2 nd week	3 rd week	4 th week	5 th week
September	Intro and Imp. Of Cell biology, Structural models of plasma membrane, Chemical composition of P.M.	Modifications and Functions of Plasma membrane Passive Transport, Diffusion & Osmosis	Active Transport: Na ⁺ /K ⁺ /Ca ²⁺ Pumps Endocytosis & Exocytosis	Intro & Ultra-structure of E.R, Modifications & Functions of E.R. Assignment & Test,	Golgi complex: Intro & Ultrastructure, Functions of Golgi complex
October	Ribosomes: Types & Ultrastructure , Chemical composition & Functions,	Lysosomes: Enzymes & Polymorphism, Functions, Assignment & Test	Mitochondria Ultrastructure Biogenesis & Functions	Microtubules & Microfilaments	Centriole & basal body, Cilia & Flagella
November	Nucleus: Structure & Functions	Nuclear Chromatin Assignments & Test,	Chromosomes : Structure & Functions	Giant chromosomes Cell cycle: Phases & Types	Mitosis Meiosis I Meiosis II
December	Cancer Biology Assignments & Test	Intro of Cellular Immunity Antigen & Antibody Structure	Antigen Antibody interaction, Cells & Types of immune system	Doubts & Revision of previous year papers Assignments, Seminars & Test	Exams & Practicals

Teacher's Signature

TEACHING PLAN 2022-23): ODD SEMESTER
(Sep. 2022 (Tent.) to Dec. 2022)
Pt. J.L.N. Govt. College, Faridabad

Name of Assistant/ Associate Professor: Dr. Vivek Anand Chandrwal

Department : Zoology

Class & Section: B.Sc. II (3rd Sem.): Sec. A & Sec. B

Paper: Mammalian Physiology I

Month	1 st week	2 nd week	3 rd week	4 th week	5 th week
September	Biochemistry Introduction Physiology Introduction	Significance and scope of Biochemistry Carbohydrate s : Introduction & Classification	Structure and types of carbohydrates	Functions of carbohydrates Assignment/ Test	Lipids : Intro & Classification Types of Fatty acids
October	Physical and Chemical properties of fat Functions of lipids	Proteins : Introduction and Diff. Structure models	Classification and functions of proteins Test/ Assignment	Enzymes : Intro, Nomenclature and classification	Mechanism of enzyme action Mechalis menten equation
November	Regulation & Inhibition of enzyme activity Test/ Assignment	Buffer systems of human body Passive transport systems	Active transport systems and its significance Nutritional components & Malnutrition disease	Digestion of lipids, proteins carbohydrates and nucleic acids	Absorption and Assimilation of food Control of enzyme secretions
December	Types & Ultra structure of muscles Test/ Assignment	Biochemical & Physical events of muscle contraction Single muscle twitch	Cori's cycle, single unit smooth muscles Seminars/ Tests/ Revision	Types and growth of bones ; Bone Disorders Seminars/ Tests/ Revision	Exams & Practicals

Teacher's Signature

TEACHING PLAN 2025-2026 (ODD SEMESTER)

(Aug. 2025 (Tent.) to November 2025)

Name :-Suresh kumar

Department:-Zoology

Sub:- Ecology and Evolution 5th sem

Month	1st Week	2nd Week	3rd Week	4th Week
August	Basic concepts of ecology - terminology	Habitat and micro habitat	Abiotic factors : light	Biotic factors
	Basic concepts of ecology - terminology	Habitat and micro habitat	Abiotic factors : temperature	Biological species interaction
	Various branches of ecology	Ecological niche	Climatic factors	Soil profile and fauna
	Various branches of ecology	Ecological niche	Edaphic Factors	Biotic factors
	Significance of ecology	Ecological niche	Edaphic Factors	Benificial interactions
	Significance of ecology	Group discussion	Topographic factors	Antagonistic interactions
September	Ecosystem components	Biogeochemical cycles : Nitrogen cycle	Characteristics of population	Origin of life
	Food chain and food webs	Biogeochemical cycles : Oxygen cycle	Factors affecting population	Darwinism
	Energy flow in an ecosystem	Biogeochemical cycles : Carbon cycle	J-shape and S-shape growth curve	Neodarwinism
	Energy flow in an ecosysytem	Biogeochemical cycles : Sulphur cycle	Population control methods	Lamarkism
	Universal model of energy flow	Biogeochemical cycles : Phosphorous cycle	Population explosion	Neolamarkism
	Ecological pyramid	Revision	Test	Revision
October	Evidences of evolution : Morphological	Concept of species	Microevolution	Geological time scale phylogeny of horse
	Evidences of evolution : Anatomical	Concept of species	Microevolution	Geological time scale phylogeny of horse
	Evidences of evolution : Embryological	Allopatric and Sympatric speciation	Macroevolution	Geological time scale phylogeny of horse
	Evidences of evolution : Physiological	Allopatric and Sympatric speciation	Macroevolution	Phylogeny of man
	Evidences of evolution : Palaentological	Reproductive isolation	Macroevolution	Phylogeny of man

	Evidences of evolution : Biogeographical	Group discussion	Phylogeny of man	
November	Megaevoluion	Mutation theory	Prev. Year Papers Revision	
	Megaevolution	Artificial selection	Test	
	Revision	Weismann theory	Revision	
	Discussion	Lederberg's replica experiment	Test	
	Test	Lederberg's replica experiment	Seminars	
	Discussion	Seminars	Seminars	

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