

K. M. Govt. College Narwana Jind

Week Wise Lesson Plan 2023-24

Ms. Kirti, Asstt. Prof. in Department of Zoology

VAC- Environmental Studies, Bsc- Ist Semester (Life Science)

September	
Week 3	Introduction to environmental studies, Ecosystems-Defination
Week 4	Energy flow in an ecosystem: food chains, food webs, Major ecosystems types, Natural resources: Renewable and Non- renewable Resources
Week 5	Biodiversity and Conservation
October	
Week 1	L and resources: Land degradation and soil erosion, Forest resources, Water resources and Energy resources
Week 2	Biodiversity and Conservation
Week 3	Biodiversity and Conservation continue.....
Week 4	Environmental pollution
Week 5	Environmental pollution continues.....
November	
Week 1	Environmental Policies & Practices
Week 2	Human Communities and the Environment
Week 3	Resettlement and rehabilitation
Week 4	Disaster management
Week 5	Environmental ethics
December	
Week 1	Revision
Week 2	Revision
Week 3	Revision

Name of Lecturer- Mrs. Kirti
Class and section- B.Sc-III Medical
Semester- 5 th semester
College- K.M. Government College, Narwana
Session 2023-24

AUGUST

1st Week- Basic concepts of ecology: Definition, signification. Concepts of habitat and ecological niche.

2nd Week- Factors affecting environment: Abiotic factors (light-intensity, quality and duration)

3rd Week- Factors affecting environment: temperature, humidity, topography; edaphic factors; Biotic factors.

4th Week - Introduction to major ecosystems of the world

5th Week - Ecosystem: Concept, components, properties and functions

SEPTEMBER

1st Week- Ecological energetics and energy flow-food chain, food web, trophic structure

2nd Week- Ecological pyramids concept of productivity.

3rd Week- Biogeochemical cycles: Concept, reservoir pool, gaseous cycles and sedimentary cycles

4th Week- Population: Growth and regulation, Conservation of natural resources

5th Week - Migration in fishes and birds, Parental care in animals

OCTOBER

1st Week- Class test and assignment-1

2nd Week- Concept of biodiversity, Population interactions

3rd Week-Environmental Pollution,Origin of life, Concept and evidences of organic evolution.

4th Week- Theories of organic evolution, Concept of micro, macro-and mega-evolution

5th Week- Concept of species, Phylogeny of Horse Evolution of Man

NOVEMBER

1st Week-Generalized structure of mammalian ovum & sperm, spermatogenesis and Oogenesis, fertilization.

2nd Week- Parthenogenesis, different types of eggs and patterns of cleavage, Process of blastulation

3rd Week- Fate-map construction in frog and chick, Gastrulation in frog and chick upto the formation of germinal layers.

4th Week- .

5th Week -

DECEMBER

1st Week- Elementary knowledge of primary organizers and extra embryonic membranes.

2nd Week- Concepts of competence, determination and differentiation and regeneration.

3rd Week- Class test and Assignment-2

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Week Wise Lesson Plan 2023-24(Odd 3 Semester) Zoology

Dr.Sanjay Singh, Extension Lecturer Zoology

August	
Week 1	Introduction, Classification and functions of proteins lipids and carbohydrates
Week 1	Introduction, Classification and functions of Lipids
Week 3	Introduction, Classification and functions of carbohydrates
Week 4	Group discussion, class test
Week 5	Nomenclature, Classification of enzyme
September	
Week 1	Mechanisms of enzyme action, Transport through biomembranes (Active and Passive)
Week 1	Buffers
Week 3	Nutrition: Nutritional components; Carbohydrates, fats, lipids, Vitamins and Minerals., Muscles, Bones
Week 4	Chordates: Origin and Evolutionary tree., Protochordates: Systematic position, distribution, ecology, morphology and affinities
Week 5	Urochordata <i>Herdmania</i> - type study , Cephalochordata, <i>Amphioxus</i> – type study
October	
Week 1	Cyclostomes: Type study of <i>Petromyzon</i> .
Week 2	Pisces: Scales & Fins, Parental care in fishes,
Week 3	Fish migration.
Week 4	Types study of Labeo
Week 5	Assignment and class test
November	
Week 1	Nomenclature, Classification and mechanisms of enzyme action, Transport through biomembranes (Active and Passive)
Week 2	Buffers
Week 3	Oxygen debt., Cori's cycle, single unit smooth muscles, their physical and functional properties
Week 4	Muscles

Week 5	Test, Discussion
	December
Week 1	Introduction, Classification, Structure, function and general properties of proteins,
Week 2	Introduction, Classification, Structure, function and general properties of lipids, and Carbohydrates revision.
Week 3	Muscle Physiology, Bones revision

Series - 2023-24

Name of Extension Lecturer- Mrs. Poonam
Class and section- B.Sc.-I Medical
Semester- 1st semester
College- K. M. P. G. Government College, Narwana
Session 2023-24
AUGUST

WEEK 1 Phylum Protozoa: General characters and classification up to class level, Type study of Plasmodium

WEEK 2 Type study of Plasmodium, Phylum Porifera: General characters and classification up to class level

WEEK 3 Type study of Sycon

WEEK 4 Revision and class test

WEEK 5 Phylum – Coelentrata: General characters and classification up to class level

SEPTEMBER

WEEK 1 Type Study of Obelia, Phylum – Platyhelminthes and Aschelminthes

WEEK 2 General characters and classification up to class level, Type study of Liver Fluke

WEEK 3 Type study of Liver Fluke, Phylum – Annelida: General characters and classification up to class level,

WEEK 4 Revision and class test, Assignments

WEEK 5 Type study of Earthworm (Habitat, habits, metamerism, digestive System)

OCTOBER

WEEK 1 Type study of Earthworm (circulatory system, nervous system, reproductive system) Phylum – Arthropoda: General characters and classification up to class level,

WEEK 2 Type study of Cockroach (Habitat, habits, external morphology, digestive system)

WEEK 3 Type study of Cockroach (respiratory system, excretory system, reproductive system)

WEEK 4 Revision and class test

WEEK 5 Phylum - Mollusca: General characters and classification up to class level,

NOVEMBER

WEEK 1 Type study of Pila

WEEK 2 Phylum – Echinodermata: General characters and classification up to class level, Type study of Asterias (Habitat, habits, external morphology)

WEEK 3 Type study of Asterias (water vascular system, Circulatory System), Phylum Hemichordata: General characters of Hemichordates with examples

WEEK 4 Assignments and Revision

WEEK 5 Class test and Revision, Seminar

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Week Wise Lesson Plan 2023-24

Ms. Kirti, Asstt. Prof. in Department of Zoology

SEC-Techniques in Bird Watching, Bsc- Ist Semester (Life Science)

September	
Week 3	Important field signs of bird watching
Week 4	Characteristics of Birds with flight adaptations
Week 5	Important field signs of bird watching
October	
Week 1	Zoological Names of Important birds
Week 2	Field characters of important birds
Week 3	Sexual dimorphism in birds
Week 4	Important Indian Bird areas
Week 5	Important Bird areas of Haryana
November	
Week 1	ASSIGNMENT and Test, Resident & Migratory Birds
Week 2	Birds as bio-indicators
Week 3	Birds in food chain and Agriculture
Week 4	Bird Migration
Week 5	Revision and test
December	
Week 1	Revision
Week 2	Revision
Week 3	Revision

Kirti