

MHARANA PRATAP P.G. COLLEGE, JUNGLE DHUSAN, GORAKHPUR**Class: B.Sc. VI Semester****Theory: 2024-25****Subject: Zoology**

Date	Lecture No.	Teacher's Name	Unit	Chapter	Topic
16.01.25	1	R.N.Singh	1	Theories of Evolution	Origin of Life
17.01.25	1	SK	1	Introduction to Ecology	History of ecology
18.01.25	2	R.N.Singh	2	Population Genetics	Microevolution and Macroevolution: allele frequencies, genotype frequencies,
20.01.25		SK	CT	CT	
21.01.25	3	R.N.Singh	2	Organization of Ecosystem	Levels of organization, Laws of limiting factors Study of physical factors
22.01.25	2	SK	3	Direct Evidences of Evolution	Types of fossils,
23.01.25	4	R.N.Singh	3	Community Ecology	Community characteristics: species richness
24.01.25	3	SK	4	Species Concept and Extinction	Biological species concept (Advantages and Limitations)
25.01.25	5	R.N.Singh	4	Environmental Hazards	Sources of Environmental hazards
27.01.25		SK	CT	CT	
28.01.25	6	R.N.Singh	5	Gamete Fertilization and Early Development	Gametogenesis, Fertilization
29.01.25	4	SK	5	Effects of Climate Change	Effect of climate change on public health
30.01.25	7	R.N.Singh	6	Developmental Genes	Genes and development
31.01.25	5	SK	6	Behavioural Ecology and Chronobiology	Origin and history of Ethology
1.02.25	8	R.N.Singh	7	Early Vertebrate Development	Early development of vertebrates (fish, birds & mammals)
4.02.25		SK	CT	CT	
5.02.25	9	R.N.Singh	7	Introduction to Wild Life	Values of wild life - positive and negative
6.02.25	6	SK	8	Late Developmental Processes	The dynamics of organ development Development of eye, kidney, limb
7.02.25	10	R.N.Singh	8	Protected areas	National parks & sanctuaries, Community reserve
8.02.25	7	SK	1	Theories of Evolution	Lamarckism, Darwinism
10.02.25	11	R.N.Singh	1	Introduction to Ecology	Autecology and synecology Levels of organization
11.02.25		SK	ME	ME	
13.02.25	12	R.N.Singh	2	Population Genetics	Hardy Weinberg equilibrium and conditions for its maintenance

14.02.25	8	SK	2	Organization of Ecosystem	Population: Density, natality, mortality, life tables, fecundity tables, survivorship curves, age ratio, sex ratio, dispersal and dispersion, Exponential and logistic growth,
15.02.25	13	R.N.Singh	3	Direct Evidences of Evolution	Incompleteness of fossil record,
17.02.25	9	SK	3	Community Ecology	dominance diversity, abundance
18.02.25	14	R.N.Singh	4	Species Concept and Extinction	Modes of speciation(Allopatric, Sympatric)
19.02.25		SK	CT	CT	
20.02.25	15	R.N.Singh	4	Environmental Hazards	Climate changes
21.02.25	10	SK	5	Gamete Fertilization and Early Development	Cleavage pattern, Gastrulation, fate maps
22.02.25	16	R.N.Singh	5	Effects of Climate Change	Sources of waste, types and characteristics Sewage disposal and its management, Solid waste disposal, Biomedical waste handling and disposal
24.02.25	17	R.N.Singh	6	Developmental Genes	Genes and development
25.02.25	11	SK	6	Behavioural Ecology and Chronobiology	Instinct vs. Learnt Behaviour
27.02.25	18	R.N.Singh	CT	CT	
28.02.25		SK	7	Early Vertebrate Development	Early development of vertebrates (fish, birds & mammals)
1.03.25	19	R.N.Singh	7	Introduction to Wild Life	Conservation ethics
3.03.25	12	SK	8	Late Developmental Processes	Metamorphosis: the hormonal reactivation of development in amphibians, insects
4.03.25	20	R.N.Singh	8	Protected areas	Important features of protected areas in India
5.03.25	13	SK	1	Theories of Evolution	Natural, Sexual and Artificial selection
6.03.25	21	R.N.Singh	ME	ME	
7.03.25	14	SK	1	Introduction to Ecology	Autecology and synecology Levels of organization
8.03.25	22	R.N.Singh	2	Population Genetics	Hardy Weinberg equilibrium and conditions for its maintenance
10.03.25	15	SK	2	Organization of Ecosystem	Population: Density, natality, mortality, life tables, fecundity tables, survivorship curves, age

					ratio, sex ratio, dispersal and dispersion, Exponential and logistic growth,
11.03.25	23	R.N.Singh	3	Direct Evidences of Evolution	Incompleteness of fossil record,
17.03.25	16	SK	3	Community Ecology	dominance diversity, abundance
18.03.25	24	R.N.Singh	CT	CT	
19.03.25	17	SK	4	Species Concept and Extinction	Mass extinction (Causes, Names of five major extinctions)
20.03.25	25	R.N.Singh	4	Environmental Hazards	Greenhouse gases and global warming
21.03.25	18	SK	5	Gamete Fertilization and Early Development	Developmental mechanics of cell specification
22.03.25	26	R.N.Singh	5	Effects of Climate Change	Nuclear waste handling and disposal, Waste from thermal power plants,
1.04.25	19	SK	6	Developmental Genes	Molecular basis of development
2.04.25	27	R.N.Singh	CT	CT	
3.04.25	20	SK	6	Behavioural Ecology and Chronobiology	Associative learning, classical and operant conditioning, Habituation, Imprinting
4.04.25	28	R.N.Singh	7	Early Vertebrate Development	Metamorphosis, regeneration and stem cells
5.04.25	21	SK	7	Introduction to Wild Life	Importance of conservation, Causes of depletion
7.04.25	29	R.N.Singh	8	Late Developmental Processes	Regeneration: salamander limbs, mammalian liver, Hydras, Aging: the biology of senescence
8.04.25	22	SK	8	Protected areas	Tiger conservation - Tiger reserves in India, Management challenges in Tiger reserve
9.04.25	30	R.N.Singh	CT	CT	
11.04.25	23	SK	1	Theories of Evolution	Modern synthetic theory of evolution, Patterns of evolution (Divergence, Convergence Parallel, Coevolution)
12.04.25	31	R.N.Singh	1	Introduction to Ecology	Laws of limiting factors Study of physical factors
15.04.25	24	SK	2	Population Genetics	Forces of evolution: mutation, selection, genetic drift
16.04.25	32	R.N.Singh	2	Organization of Ecosystem	Types of ecosystems with

					one example in detail, Food chain: Detritus and grazing food chains,, Food web, Energy flow through the ecosystem, Ecological pyramids and Ecological efficiencies, Nutrient and biogeochemical cycle with one example of Carbon cycle
17.04.25	25	SK	3	Direct Evidences of Evolution	Dating of fossils, Phylogeny of horse
19.04.25	33	R.N.Singh	ME	ME	
21.04.25	26	SK	3	Community Ecology	Ecological succession with one example
22.04.25	34	R.N.Singh	4	Species Concept and Extinction	Mass extinction (Causes, Names of five major extinctions)
23.04.25	27	SK	4	Environmental Hazards	Acid rain, Ozone layer destruction
24.04.25	35	R.N.Singh	5	Gamete Fertilization and Early Development	Morphogenesis and cell adhesion
25.04.25	28	SK	5	Effects of Climate Change	Case histories on Bhopal gas tragedy, Chernobyl disaster, Seveso disaster and Three Mile Island accident and their aftermath.
26.04.25	36	R.N.Singh	CT	CT	
28.04.25	29	SK	6	Developmental Genes	Differential gene expression
29.04.25	37	R.N.Singh	6	Behavioural Ecology and Chronobiology	Circadian rhythms, Tidal rhythms and Lunar rhythms Chronomedicine
30.04.25	30	SK	7	Early Vertebrate Development	Environmental regulation of development