

Maharana Pratap P.G. College, Jungle Dhusan, Gorakhpur

Class: M. Sc – II (III semester)			Lesson plan: Session 2019-2020		Subject: Zoology
Date	Lecture No.	Teacher's Name	Paper	Chapter	Topic
16.07.19	1	R.N. Singh	I	Chordata	Origin of Chordates
17.07.19	2	R.N. Singh	I	Chordata	Origin of Chordates
18.07.19	1	S.K	II	Animal Development	Gametes, structure and formation
19.07.19			CT		Class Teaching
20.07.19	2	S.K	II	Animal Development	Gametes, structure and formation
22.07.19	1	VKS	III	Biostatistics	Measures of central tendencies and variations in data
23.07.19	2	VKS	III	Biostatistics	Tests of significance: t-test, analysis of variance, f-test
24.07.19	1	N.K	IV	Cell Biology-Cytological Techniques	Elementary principles of phase, interference, polarization, fluorescence
25.07.19	2	N.K	IV	Cell Biology-Cytological Techniques	Elementary principles of phase, interference, polarization, fluorescence
26.07.19			CT		Class Teaching
27.07.19	3	R.N. Singh	I	Chordata	Interrelationship of Ostracoderms
29.07.19	4	R.N. Singh	I	Chordata	Interrelationship of Ostracoderms
30.07.19	3	S.K	II	Animal Development	Fertilization (pre- and post-fertilization events)
31.07.19	4	S.K	II	Animal Development	Fertilization (pre- and post-fertilization events)
01.08.19	3	VKS	III	Biostatistics	Null hypothesis and Chi-square test
02.08.19			CT		Class Teaching
03.08.19	4	VKS	III	Biostatistics	Distribution: Normal; Binomial and poisson, correlation, regression and probability
06.08.19	3	N.K	IV	Cell Biology-Cytological Techniques	Electron microscope (transmission electron microscope, scanning electron and atomic force microscopy)
07.08.19	4	N.K	IV	Cell Biology-Cytological Techniques	Electron microscope (transmission electron microscope, scanning electron and atomic force microscopy)
08.08.19	5	R.N. Singh	I	Chordata	Placoderms
09.08.19	6	R.N. Singh	I	Chordata	Placoderms
10.08.19			CT		Class Teaching
13.08.19	5	S.K	II	Animal Development	Biochemistry of fertilization
14.08.19	6	S.K	II	Animal Development	Nature of eggs and their cleavage
16.08.19	5	VKS	III	Biostatistics	Distribution: Normal; Binomial and poisson, correlation, regression and probability
17.08.19	6	VKS	III	Principles of Taxonomy	Definition and basic concepts of Biosystematics & Taxonomy
19.08.19	5	N.K	IV	Cell Biology-Cytological Techniques	Theory and application of freeze-drying

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20.08.19			CT		Class Teaching
21.08.19	6	N.K	IV	Cell Biology-Cytological Techniques	x-ray diffraction, radioautographs
22.08.19	7	R.N. Singh	I	Chordata	General organization and affinities of Holocephali
24.08.19	8	R.N. Singh	I	Chordata	General organization and affinities of Holocephali
26.08.2019	7	S.K	II	Animal Development	Nature of eggs and their cleavage
27.08.19	8	S.K	II	Animal Development	Gastrulation
28.08.19			ME		Monthly Evaluation
29.08.19	7	VKS	III	Principles of Taxonomy	Historical resume of systematics and its importance and application in biology
30.08.19	8	VKS	III	Principles of Taxonomy	Trends in Biosystematics
02.09.19	7	N.K	IV	Cell Biology-Cytological Techniques	x-ray diffraction, radioautographs
03.09.19	8	N.K	IV	Cell Biology-Cytological Techniques	Methods of cell tissue culture
04.09.19	9	R.N. Singh	I	Chordata	Crossopterygii and Dipnoi
05.09.19			CT		Class Teaching
06.09.19	10	R.N. Singh	I	Chordata	Origin of paired fins in teleosts
07.09.19	9	S.K	II	Animal Development	Organogenesis of vertebrate brain
19.09.19	10	S.K	II	Animal Development	Eye and heart
11.09.19	9	VKS	III	Principles of Taxonomy	Concepts of different conventional and newer aspects – chemotaxonomy, cytotaxonomy, ethotaxonomy
13.09.19	10	VKS	III	Principles of Taxonomy	Molecular taxonomy and numerical taxonomy
14.09.19			CT		Class Teaching
16.09.19	9	N.K	IV	Cell Biology-Cytological Techniques	Chemical basis of fixation
17.09.19	10	N.K	IV	Cell Biology-Cytological Techniques	Cytochemical localization of proteins
19.09.19	11	R.N. Singh	I	Chordata	Rhynchocephalia
20.09.19	12	R.N. Singh	I	Chordata	Origin of tetrapoda
21.09.19	11	S.K	II	Animal Development	Evolution of viviparity in mammals
23.09.19			ME		Monthly Evaluation
24.09.19	12	S.K	II	Animal Development	Cellular and biochemical events in metamorphosis of insects and amphibians
25.09.19	11	VKS	III	Principles of Taxonomy	Dimensions of speciation and Taxonomic characters

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26. 09.19	12	VKS	III	Principles of Taxonomy	Types of lineage changes, production of additional lineage, species concepts
27. 09.19	11	N.K	IV	Cell Biology- Cytological Techniques	Lipids, glycogen, RNA, DNA, phosphatase, esterases and oxidases
30.09.19	12	N.K	IV	Cell Biology- Cytological Techniques	Lipids, glycogen, RNA, DNA, phosphatase, esterases and oxidases
01.10.19			CT		Class Teaching
03.10.19	13	R.N. Singh	I	Chordata	Neoteny in Amphibia
04.10.19	14	R.N. Singh	I	Chordata	Origin and evolution of Reptiles
05.10.19	13	S.K	II	Animal Development	Causes of fetal deformities
12.10.19	14	S.K	II	Morphogenesis	Determination of polarity and symmetry
14.10.19	13	VKS	III	Principles of Taxonomy	species category, different species concepts, subspecies and infra-specific categories
15.10.19			CT		Class Teaching
16.10.19	14	VKS	III	Principles of Taxonomy	Theories of biological classification hierarchy of categories, taxonomic and non-taxonomic characters
17.10.19	13	N.K	IV	Cell Biology- Cytological Techniques	Lipids, glycogen, RNA, DNA, phosphatase, esterases and oxidases
18.10.19	14	N.K	IV	Cell Biology- Cytological Techniques	Purification and fractionation of nucleic acids
21.10.19	15	R.N. Singh	I	Chordata	Birds, Mammals
22.10.19	16	R.N. Singh	I	Chordata	Aerodynamics in birds
23.10.19			ME		Monthly Evaluation
30.10.19	15	S.K	II	Morphogenesis	Pattern regulation in insect imaginal discs
31.10.19	16	S.K	II	Morphogenesis	Induction and organizer concept
01.11.19	15	VKS	III	Principles of Taxonomy	Procedure in Taxonomy: Collection, preservation, identification, taxonomic keys – different kinds of taxonomic keys, their merits and demerits
04.11.19	16	VKS	III	Principles of Taxonomy	Systematic publications, different kinds of publications
05.11.19	15	N.K	IV	Cell Biology- Cytological Techniques	Nucleic acid hybridization
06.11.19			CT		Class Teaching
07.11.19	16	N.K	IV	Cell Biology- Cytological Techniques	Nucleic acid hybridization
09.11.19	17	R.N. Singh	I	Chordata	Birds are glorified reptiles
11.11.19	18	R.N. Singh	I	Chordata	Adaptive radiation in Eutheria
13.11.19	17	S.K	II	Morphogenesis	Differentiation at the level of chromosomes

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14.11.19	18	S.K	II	Morphogenesis	Regeneration and gradients in developing systems
15.11.19			CT		Class Teaching
16.11.19	17	VKS	III	Principles of Taxonomy	Different zoological types, international code of zoological nomenclature (ICZN)– its operative principles, interpretation and application of important rules
18.11.19	18	VKS	III	Principles of Taxonomy	Zoological nomenclature, formation of scientific names of various taxa
19.11.19	17	N.K	IV	Cell Biology-Cytological Techniques	Enzymatic application of DNA by PCR
20.11.19	18	N.K	IV	Cell Biology-Cytological Techniques	Enzymatic application of DNA by PCR
21.11.19	19	R.N. Singh	I	Chordata	Origin and evolution of Man
22.11.19			CT		Class Teaching
23.11.19	20	R.N. Singh	I	Chordata	Origin and evolution of Man
25.11.19	19	S.K	II	Morphogenesis	Ageing and cellular death
26.11.19	20	S.K	II	Morphogenesis	Transgenic animals and knock outs (production, application, embryonic stem cell)
27.11.19	19	VKS	III	Evolution	Neo-Lamarckism, Neo-Darwinism and Synthetic theory of evolution, Isolation and speciation
28.11.19	20	VKS	III	Evolution	Genes in population: Hardy Weinberg Law and Sewell Wright effect, Micro evolution
29.11.19			ME		Monthly Evaluation
30.11.19	21	VKS	III	Evolution	Macro evolution and Mega evolution, Evolution in action