

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

Class: M. Sc – I semester			Lesson plan: Session 2018-2019		Subject: Zoology
Date	Lecture No.	Teacher's Name	Paper	Chapter	Topic
16.08.18	1	R.N. Singh	I	Non-Chordata	Nutrition in Protozoa
17.08.18	2	R.N. Singh	I	Non-Chordata	Nutrition in Protozoa
18.08.18	1	NK	II	Principles and use of instruments	Balances, flame photometry
20.08.18				CLASS TEACHING	
21.08.18	2	NK	II	Principles and use of instruments	Spectrophotometer
23.08.18	3	NK	III	Chemical equilibrium	Law of Mass action
24.08.18	4	NK	III	Chemical equilibrium	Elementary thermodynamic system,
25.08.18	1	SK	IV	Current status of Mendalism	Interaction of genes
27.08.18	2	SK	IV	Current status of Mendalism	Interaction of genes
28.08.18				MONTHLY EVALUATION	
29.08.18	3	R.N. Singh	I	Non-Chordata	Nutrition in Protozoa
30.08.18	4	R.N. Singh	I	Non-Chordata	Reproduction in Protozoa

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Date	Lecture No.	Teacher's Name	Paper	Chapter	Topic
01.09.18	5	NK	II	Principles and use of instruments	Spectrofluorophotometer
04.09.18	6	NK	II	Principles and use of instruments	Atomic Absorption Spectrophotometry
05.09.18	7	NK	III	Chemical equilibrium	Elementary thermodynamic system,
06.09.18				CLASS TEACHING	
07.09.18	8	NK	III	Chemical equilibrium	calculation of free energy change during biological redox reactions
08.09.18	3	SK	IV	Current status of Mendalism	Cytoplasmic inheritance
10.09.18	4	SK	IV	Current status of Mendalism	Cytoplasmic inheritance
11.09.18	5	R.N. Singh	I	Non-Chordata	Reproduction in Protozoa
12.09.18	6	R.N. Singh	I	Non-Chordata	Origin of Metazoa
13.09.18				CLASS TEACHING	
14.09.18	9	NK	II	Principles and use of instruments	Atomic Absorption Spectrophotometry
15.09.18	10	NK	II	Microbial techniques	Media preparation and type Sterilization
17.09.18	11	NK	III	Biological chemistry	Acid and base
18.09.18	12	NK	III	Biological chemistry	Amphoteric ions
19.09.18	5	SK	IV	Genetics	Environment and heredity
20.09.18				CLASS TEACHING	
22.09.18	6	SK	IV	Genetics	Lethal genes
24.09.18	7	R.N. Singh	I	Non-Chordata	Origin of Metazoa
25.09.18	8	R.N. Singh	I	Coelenterata	Polymorphism In Coelenterata & Colony formation
26.09.18	13	NK	II	Microbial Techniques	Inoculation And Growth Monitoring, use of fermentations; Microbial Assays
27.09.18	14	NK	II	Chromatography	Thin Layer Chromatography (TLC)
28.09.18				MONTHLY EVALUATION	

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01.10.18	15	NK	III	Kinetics Of Enzyme Reaction	Zwitter ions, Kinetics Of Enzyme-Catalyzed Reactions
03.10.18	16	NK	III	Kinetics Of Enzyme Reaction	Two Substrate Reactions; Temperature Coefficient, Activation Energy
04.10.18	7	SK	IV	Genetics	Sex-Linked Inheritance
05.10.18	8	SK	IV	Genetics	Sex-Linked Inheritance
06.10.18	9	R.N. Singh	I	Helminthes & Nematodes	Life Cycle Patterns In Helminthes Parasites & Ecology Of Soil Nematodes
09.10.18				CLASS TEACHING	
10.10.18	10	R.N. Singh	I	Polychaeta	Adaptive Radiation In Polychaeta & Segmental Organs In Annelida.
11.10.18	17	NK	II	Chromatography	Gas Liquid Chromatography (GLC)
12.10.18	18	NK	II	Chromatography	Ion Exchange Chromatography, Colum Chromatography
13.10.18	19	NK	III	Enzyme Inhibition	Competitive Inhibitors & Non-Competitive Inhibitors
15.10.18	20	NK	III	Enzymes	Allosteric Enzymes
16.10.18				CLASS TEACHING	
17.10.18	9	SK	IV	Chromosome	Multiple Allelism ; Numerical And Structural Chromosome Aberrations
22.10.18	10	SK	IV	Chromosome	DNA Replication
24.10.18	21	NK	II	Chromatography	Gel Exclusion, High Performance Liquid Chromatography (HPLC)
25.10.18	22	NK	II	Chromatography	Gel Exclusion Chromatography, Affinity Chromatography, Separation of Biomolecules by Electrophoresis
26.10.18	23	NK	III	Vitamins	Structure And Function Of Vitamins
27.10.18				MONTHLY EVALUATION	
29.10.18	24	NK	III	Aerobic And Anaerobic Energy Production From Carbohydrates	Glycolysis, HMP Shunt
31.10.18	11	SK	IV	Transposable Elements	Transposable Elements In Prokaryotes And Eukaryotes and their role

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01.11.18	12	SK	IV	Microbial Genetics	Bacterial Transformation, Transduction, conjugation
02.11.18	25	NK	II	Centrifugation	Principles Of Differential Centrifugation,
03.11.18	26	NK	III	Energetic	β -Oxidation Of Fatty Acids, Deamination Of Amino Acids Phenylalanine,
12.11.18				CLASS TEACHING	
13.11.18	27	NK	III	Energetic	Aspartate, Proline, Threonine,
14.11.18	13	SK	IV	Microbial Genetics	Bacterial Chromosome, Bacteriophages
15.11.18	14	SK	IV	Molecular Cytogenetics	FISH, GISH, DNA Finger Printing
16.11.18	28	NK	III	Biosynthesis Of Amino Acids	Proline, Threonine, Tryptophan & Phenylalanine
17.11.18	29	NK	III	Biosynthesis Of Amino Acids	Aspartate
19.11.18				CLASS TEACHING	
20.11.18	15	SK	IV	Molecular Cytogenetics	Flow Cytometry Chromosome Painting
21.11.18	16	SK	IV	Elements Of Eugenics	Eugenics
22.11.18	30	NK	III	Biosynthesis	Glycogen, urea
23.11.18	31	NK	III	Enzymes	Immobilized Enzymes
24.11.18	17	SK	IV	Elements Of Eugenics	Eugenics
26.11.18				MONTHLY EVALUATION	
27.11.18	18	SK	IV	Genes	Imprinting Of Genes
28.11.18	32	NK	III	Enzymes	Applications Of Immobilized Enzymes.
29.11.18	19	SK	IV	Genes	Chromosomes And Genes
30.11.18	20	SK	IV	Gene	Gene Therapy.