V.V. Sangha's

Smt.Allum Sumangallamma Memorial College for Women, Ballari Department of Zoology

TEACHING PLAN

Academic Year: 2022-23

Course: Genetics & Infectious Diseases Name of the faculty: Dr. D. Satheesh Semesters: I

Unit No.	Title of the Chapter and Description	Month	No. of Hours allotted	Hours taken	Teaching pedagogy
1.	Basic principles of heredity: Mendel's laws- monohybrid cross and hybrid cross Complete and Incomplete Dominance Penetrance and expressivity Genetic Sex-Determining Systems, Environmental Sex Determination, Sex Determination and mechanism in Drosophilamelanogaster. Sex-linked characteristics in humans and dosage compensation 6.Extensions of Mendelism, Genes and Environment Extensions of Mendelism: Multiple Alleles	October -22	5	5	Black board chalk and talk & PPT
2.	Gene Interaction. The Interaction Between Sex and Heredity: Sex-Influenced and Sex-Limited Characteristics: Cytoplasmic Inheritance, Genetic Maternal Effects: Interaction between Genes and Environment: Environmental Effects on Gene Expression, Inheritance of Continuous Characteristics: Chapter 7. Human Chromosomes and Patterns of Inheritance Patterns of inheritance: autosomal dominance, autosomal recessive, X-linked recessive, X-linked dominant. Chromosomal anomalies Structural and numerical aberrations with examples. Human karyotyping and Pedigree analysis. Chapter 8. Infectious Diseases Introduction to pathogenic organisms: viruses, bacteria, fungi, protozoa and worms.	November- 22	10	10	Black board chalk and talk PPT
3.		December -22	3	3	Black board chalk and talk and PPT

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V.V. Sangha's Smt.Allum Sumangallamma Memorial College for Women, Ballari

Department of Zoology TEACHING PLAN

Academic Year: 2022-23

Course: Genetics

Name of the faculty: Dr. D. Satheesh

Semesters: V

Unit No.	Title of the Chapter and Description	Month	No. of Hours allotted	Hours taken	Teaching pedagogy
1.	Introduction: History of genetics, branches of genetics, heredity and variation. Practical applications of genetics. Genetics Terminology, Interaction of genes: Supplementary factors -9: 3: 3: 1 Example: Comb pattern in fowls. Dominant epistasis-13: 3: plumage colour in Leghorn and yandotte. Dominant epistasis - 12:3:1 Coat colour in dogs Recessive epistasis 9: 3: 4 – Coat colour in mouse	October -22	5	5	Black board chalk and talk & PPT
2.	Complementary factors - 9: 7, flower colour in sweet peas, Multiple factors / polygenic inheritance –Skin Colour in Man. Lethal gene - Coat colour in mice. Multiple Alleles: Characteristics of Multiple Alleles, Inheritance of coat colour in Rabbit and ABO blood groups in human, Rh-factor, Isoalleles, Pseudoalleles and position effect. Linkage and Crossing over: Linkage: Theories of linkage, Linkage in Drosophila, linkage in man Crossing over: Mechanism of meiotic Crossing Over, Types of Crossing over, Cytological detection of crossing over (Stern's Experiment on Drosophila), Significance of Crossing over, Sex determination: Chromosomal mechanism of sex determination, Genic balance theory, nandromorphy and intersexes	aratamat	10 Leaster ba	10	Black board chalk and talk PPT

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3	of linkage, Linkage in Drosophila, linkage in man, Crossing over: Mechanism of meiotic Crossing Over, Types of Crossing over, Cytological detection of crossing over (Stern's Experiment on Drosophila), Significance of Crossing over Sex determination: Chromosomal mechanism of sex determination, Genic balance theory, ynandromorphy and intersexes Sex linked inheritance: Sex linked inheritance in Drosophila. Haemophillia and colour blindness in man. Sex linkage in poultry, Y linked genes Mutations: Chromosomal aberrations- Human Diseases: Klinefelter's Syndrome, Turner's syndrome, Edwards Syndrome, Patau syndrome Chi- du – chart syndrome and Down's syndrome (Mongolism)	December -22	BALLAR BALLAR	3 Cor Woman	Black board chalk and talk and PPT
4.	Gene mutations – Types of gene mutation and Molecular basis of gene mutations Human genetics and eugenics: Common human genetic disorders Inborn errors of metabolism: Albinism, Phenylketonuria, Alkaptoneuria, Sickle cell anemia. Thalassemia, Huntington's chorea, Eugenics.	January -23	6	6	Black board chalk and talk and PPT

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Smt.Allum Sumangallamma Memorial College for Women, Ballari Department of Zoology TEACHING PLAN

Academic Year: 2022-23

Course: Genetics

Name of the faculty: Md. Yunus Basha

Semesters:

Unit No.	Title of the Chapter and Description	Month	No. of Hours allotted	Hours taken	Teaching pedagogy
1	Chromosomes: Chromosome number, size chromosomal morphology, and types, structure and models. Heterochromatin and euchromatin. Giant chromosomes-polytene and lampbrush.	October -22	5	5	Black board, chalk and talk method
2	Nucleic Acids, and Protein Biosynthesis: Identification of genetic material — Griffith's experiment Chemistry of nucleic acids, structure of DNA, Watson and crick DNA model, replication of DNA.Forms of DNA, Types of RNA Genetic code, properties of genetic code, wobble hypothesis, mechanism of protein biosynthesis	November- 22	9	9	Black board, chalk and talk method
3	Genetic Engineering and Biotechnology: Recombinant DNA technology, (Isolation of Gene, Endonuleases, Palindrome Sequence, Cloning Vectors-Plasmids, Gene-Cloning); production on or insulin by rDNA technology PCR DNA finger printing and DNA vaccines		8	8	Black board, chalk and talk method
4	Applications of genetic engineering medicine, food technology and agriculture useful effect of biotechnology harmful effect of biotechnology	Jan 2023	7	7	Black board, chalk and talk method

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V.V. Sangha's

Smt.Allum Sumangallamma Memorial College for Women, Ballari Department of Zoology

TEACHING PLAN

Semesters: VI

Academic Year: 2022-23

Course: CELL BIOLOGY & DEVELOPMENTAL BIOLOGY

Name of the faculty: Md. Yunus Basha

Unit No.	Title of the Chapter and Description	Month	No. of Hours allotted	Hours taken	Teaching pedagogy
1	CELL BIOLOGY: History of cell biology and its branches. Cell Theory Study of light and electron microscope, cell fractionation, ultra structure of animal cell. Cell organelles: Structure and functions of Plasma membrane, Mitochondria, Golgi complex, lysosomes, endoplasmic reticulum, Ribosomes, Nucleus., Centrioles, cytoskeletal elements Cell cycle: Mitosis and meiosis, regulations of cell cycle.	May-22	5	5	Black board, chalk and talk method
2	Biology of cancer: Types of cancer, characteristics of cancer cell, carcinogenic agents (physical, chemical and biological) DEVELOPMENTAL BIOLOGY: Introduction: Branches of Embryology, Scope of Embryology, Theories of development, pre formation and epigenetic theory. Gamatogenesis: Spermatogenesis and oogenesis – comparison between spermatogenesis and oogenesis,	June-22	9	9	Black board, chalk and talk method
3	Fertilization: Kinds of fertilization, approach of gametes, fertilization and antifertilization, acrosome reaction – cortical reaction – Amphimixis, monospermic and polyspermic fertilization, significance of fertilization Cleavage: Types of cleavage – Holoblastic, meroblastic, radial and spiral types with examples.	Eu	8	8	Black board, chalk and talk method

	Tree . C. II alequere				
	Effect of yolk on cleavage.		15 Nr. 1001/4	90	
	Early development of frog:		10% cal	121	11
	Structure of ovum, cleavage,		151 201	1	
	blastulation and gastrulation.		100	1991	
	Early development of chick:		100	13/	
	Structure of hen's egg,		TO AN	- Colored	
	cleavage, blastulation,		1		
	gastrulation, origin and				
	structure of primitive streak,				
	structure of 24, and 48 hours				
	chick embryos. Extra				
	embryonic membranes		-	7	Black board,
4	Reproductive	August-22	7	7	chalk and talk
	Early development of				method
	human:				mound
	Menstrual cycle and its				
	regulation. Structure of sperm				
	and ovum, ovulation, cleavage,				
	morula, blastocyst and				
1	implantation.				
	Placenta: Morphological and		*		
	histological classifications of				
	placenta with examples,				
	structure and functions of				
	placenta - yolk sac placenta,				-
1	allantoic placenta.				
	Modern trends in human				
	reproduction Sperm bank,				
	IVF, cloning, surrogate mother				
	and multiple births – twins.			1 a	

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TEACHING PLAN

Academic Year: 2022-23

Course: Biochemistry & Physiology

Name of the faculty: Dr. Syeda K Tanveer

Semesters: II

Unit No.	Title of the Chapter and Description	Month	No. of Hours allotted	Hours taken	Teaching pedagogy
1.	Structure and Function of Biomolecules: Structure and Biological importance of carbohydrates (Monosaccharides, Disaccharides, Polysaccharides and Glycoconjugates). • Lipids (saturated and unsaturated Fatty acids, Tri-acylglycerols, Phospho lipids, Glycolipids and Steroids) • Structure, Classification and General Properties of a-amino acids; Essential and non-essential amino acids, Levels of organization in proteins; Simple andconjugate proteins. Chapter 2. Enzyme Action and Regulation • Nomenclature and classification of enzymes; Cofactors; Specificity of enzyme action. • Isozymes; Mechanism of enzyme action. • Enzyme kinetics; Factors affecting rate of enzyme-catalyzed reactions; Equation of Michaela's -Mendon, Concept of Km and V max, Enzyme inhibition • Allosteric enzymes and their kinetics; Regulation of enzyme action.	May -23	16	16	Black board chalk and talk & PPT
2.	 Metabolism of Carbohydrates and Lipids Metabolism of Carbohydrates: glycolysis, citricacid cycle, gluconeogenesis, phosphate pentose pathway Glycogenolysis and Glycogenesis Lipids-Biosynthesis of palmiticacid; Ketogenesis, β-oxidation and omega -oxidation of saturated fatty acids with even and od number of carbonatoms Metabolism of Proteins and Nucleotides Catabolism of amino acids: Transamination, Deamination, Ureacycle, Nucleotides and vitaminsPeptide linkages 	June -23	20	20	Black board chalk and talk PPT

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3.			16	16	Black
	Structural organization and functions of				board
	gastrointestinal tract and associated	M.Co	090		chalk and
	glands.	12	1 gl		talk and
	Mechanical and chemical digestion of food;	E NO	3. 12		PPT
	Absorptions of carbohydrates, lipids,	1 8 B	13/		
	proteins, water, minerals and vitamins;	150	1		
	Physiology of trachea and Lung.	ASS V			
	Mechanism of respiration, Pulmonary				
	ventilation; Respiratory volumes and				
	capacities; Transport of oxygen and carbon				
	dioxide in blood, Respiratory	23			
	pigments, Dissociation curves and the factors	7			
	influencing it;	July -23			
	 Control of respiration Circulation and Excretion in humans 	T			
	• Components of blood and their functions;				
	hemopoiesis				-
	Blood clotting: Blood clotting system, Blood Blood clotting system, Blood				
	groups: Rh-factor, ABO and MN				
	• Structure of mammalian heart			8	
	Cardiac cycle; Cardiac output and its				
	regulation, Electrocardiogram, Blood				
	pressure and its regulation				
	• Structure of kidney and its functional unit;				
	Mechanism of urine formation				
4.	Nervous System and Endocrinology in humans		10	10	Black
	• Structure of neuron, resting membrane				board
a	potential(RMP)				chalk and
	 Origin of action potential and its propagation 		- 3		talk and
	across the myelinated and				PPT
	unmyelinated nerve fibers. Types of synapse				
	 Endocrine glands - pineal, pituitary, thyroid, 	33	*		e.
	parathyroid, pancreas and adrenal;	st-2			12
	hormones secreted by them.	August-23			
	• Classification of hormones; Mechanism of	Αu			
	Hormone action	10			
	Muscular System in humans				
	 Histology of different types of muscle; Ultra 				
	structure of skeletal muscle;				
	Molecular and chemical basis of muscle				
	contraction; Characteristics of muscle				
	twitch; Motor unit, summation and tetanus				

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Smt.Allum Sumangallamma Memorial College for Women, Ballari Department of Zoology

TEACHING PLAN

Academic Year: 2022-23

Semesters: III

Course: Molecular biology, Bioinstrumentation & Techniques in Biology

Name of the faculty: Dr. Syeda K Tanveer

Unit No.	Title of the Chapter and Description	Month	No. of Hours allotted	Hours taken	Teaching pedagogy
1.	Chapter 5: Microscopy • Principles and applications of Light microscopy, Dark field microscopy, Phase contrast microscopy Fluorescence microscopy	October -22	5	5	Black board chalk and talk & PPT
2.	Confocal microscopy Electron microscopy (SEM and TEM). Centrifugation: Principles, types, and applications (High speed and Ultracentrifugation Chromatography: Principle and applications of: TLC, HPLC and GC) Chapter 7: Biochemical Instrumentation 6 hrs • Colorimetry	November -22	9	9	Black board chalk and talk PPT
3.	· · · · · · · · · · · · · · · · · · ·	December – 22	8	8	Black board chalk and talk and PPT
4.	1 10	Jan 2023	8	8	Black board chalk and talk and PPT

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Smt.Allum Sumangallamma Memorial College for Women, Ballari Department of Zoology

TEACHING PLAN

Academic Year: 2022-23

Course: Animal behavior & evolution Name of the faculty: Dr. Syeda K Tanveer



Unit No.	Title of the Chapter and Description	Month	No. of Hours allotted	Hours taken	Teaching pedagogy
1.	UNIT: I Definition and types of animal behavior Innate behavior: Kinesis, Taxes, Reflexes, Instincts and Motivation Learned behavior: Habituation, Imprinting Conditioned reflex and Insight learning Social organization in Honey bees	October -22	5	5	Black board chalk and talk & PPT
2.		November -22	9	9	Black board chalk and talk PPT
3.		cember -	8	8	Black board chalk and talk and PPT
4	Sythentic theory of evolution. gene mutation, gene flow, genetic drift, Natural selection and isolation, hardy weinberg law equilibrium. Fossils and Fossilization, Types of Fossils,)23	8	8	Black board chalk and talk and PPT

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Semesters: III

Academic Year: 2022-23 Course: Molecular biology, Bioinstrumentation & Techniques in Biology

Name of the faculty: Ms. Lakshmi Sowjanya V

Unit No.	Title of the Chapter and Description	Month	No. of Hours allotted	Hours taken	Teaching pedagogy
1.	Chapter 1: Process of Transcription • Fine structure of gene (Cistron, Recon, Muton) • RNA polymerases - types and functions Transcription in prokaryotes and eukaryotes Chapter 2: Process of Translation • Genetic code and its salient features	October -22	5	5	Black board chalk and talk & PPT
2.		November - 22	9	9	Black board chalk and talk PPT
3.	Regulation of gene expression in eukaryotes - Role of chromatin (euchromatin and heterochromatin) in gene expression Regulation of gene expression in eukaryotes - Role of chromatin (euchromatin and heterochromatin) in gene expression Post-transcriptional modification: capping, splicing, polyadenylation. Concept of RNA editing (mRNA), gene silencing, and, RNAi	December – 22	8	8	Black board chalk and talk and PPT
4	Regulation of gene expression-II • Post-translational modifications: purpose, advantages, and significance; glycosylation, methylation, phosphorylation, and acetylation. • Post-translational modifications: purpose, advantages, and significance; glycosylation, methylation, phosphorylation, and acetylation. • Intracellular protein degradation (lysosomal autophagy and ubiquitin proteosome pathway).	Jan 2023	8	8	Black board chalk and talk and PPT

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Head of the Department of Zoology Smt. A.S.M. College for Women, Ballan-683103. PRINCIPAL Smt. ASM College For Women, BALLANI.

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Smt.Allum Sumangallamma Memorial College for Women, Ballari Department of Zoology

TEACHING PLAN

Academic Year: 2022-23

Semesters: IV

Course: Gene technology, Immunology and Computational Biology

Name of the faculty: Ms. Lakshmi Sowjanya V

Unit No.	Title of the Chapter and Description	Month	No. of Hours allotted	Hours taken	Teaching pedagogy
1.	Chapter 1: Principles of Gene Manipulation Recombinant DNA Technology: Introduction, steps involved. Restriction Enzymes and Ligases and Nucleic acid modifying enzyme. Gene cloning Vector: Concept of plasmids-pBR322, Lamda phage vectors, cosmids Gene transfer techniques (Direct and indirect). Screening and selection of recombinant colonies Chapter 2:Applications of Genetic Engineering Transgenic animals (Transgenic cow, Transgenic Fish); Transgenic plants (cry protein); Gene silencing (Knock out and Knock in mouse). Production of Human Recombinant insulin and Hybridoma technology: Synthesis and applications of Monoclonal antibodies Gene Therapy (SCID) Biosensors and its applications	May -23	16	16	Black board chalk and talk & PPT
2.	2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	June -23	20	20	Black board chalk and talk PPT

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3.	Antigens and Antibodies • Antigens and haptens: Properties (foreignness, molecular size, heterogeneity). B and T cell epitopes. Structure of IgG and functions of different classes of immunoglobulins. Major histocompatibility complex - Structure of MHC I & II. Chapter 5: Clinical Immunology Immunity against diseases of viral, bacterial and protozoan infections. Vaccines: Types and Uses - Immunization schedule for children. Transplantation immunology: Transplantation of organ- Types, graft rejection and Immuno-suppressors.	July -23	16	16	Black board chalk and talk and PPT
4.	Chapter 7: Biostatistics I Measures of central tendency: Mean, Median, Mode. Data summarizing: Frequency distribution, Graphical presentation - bar diagram, pie diagram, histogram. Elementary idea of probability and its applications. Chapter 8: Biostatistics II Measures of dispersion: Range, Standard Deviation, Variance. Correlation and Regression. Tests of significance: F-test, ANOVA, t-test and Chi square test	August-23	10	10	Black board chalk and talk and PPT

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Smt. A.S.M. College for Women, Ballan-583103.

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I Semester Lison plan-

	I Se	mester	Genetics Infectious Diseases Dr. D. Satheesh
	Commencemen	nt of Cl	asses:17-08-2022 And End of I sem.17/12/2022 Classes
Month	Week	Hours	C-11 hus to be covered
August			Classes delayed due To admissions to I semester
2022			1.1 A Descriped Events 4 and 6 Sem.
	05/09/2022	to 14/0	09/2022 Classes not engaged due to Practical Exams 4 and 6 Sem.
Sep	Classe	es suspe	anded Due to Theory Examination 10/03/2022 to 30/03/
2022			Holidays 01/10/2022 to 09/10/2022
11.4 Am	10-10-2022	2	Basic principles of heredity: Mendel's laws-monohybrid
	to		cross and hybrid cross
No.	15-10-2022	1000	Complete and Incomplete Dominance
	edina n'es		Penetrance and expressivity
		A Server	Constic Sey-Determining Systems, Environmental Sex
	17-10-2022	2	Genetic Sex-Determining Systems, Environmental
No.	to		Deletinination, Den Botton
12	22-10-2022		Drosophilamelanogaster, Sex-IIIIked Characteristics
			humans and dosage compensation
22			
October -22	24-10-2022	1	6.Extensions of Mendelism, Genes and Environment
ope	to	1	Extensions of Mendelism: Multiple Alleles
Oct	29-10-2022		
-	31-10-2022	2	, Gene Interaction. The Interaction Between Sex and
	to	-	Heredity: Sex-Influenced and Sex-Limited Characteristics
	05-11-2022		Cytoplasmic Inheritance, Genetic Maternal Effects
- 13	07-11-2022	2	Interaction between Genes and Environment: Environmenta
	to	-	Effects on Gene Expression, Inheritance of Continuou
	12-11-2022		Characteristics.:
01	14-11-2022		Chapter 7. Human Chromosomes and Patterns of
-22	to	2	Inheritance Patterns of inheritance: autosomal dominance
per	19-11-2022		autosomal recessive, X-linked recessive, X-linked dominant.
ovember	17-11-2022	il ×	
ovo	All Miles		Chromosomal anomalies
Ž	21-11-2022	2	Structural and numerical aberrations with examples.
	to		Human karyotyping and Pedigree analysis.
10 S	26-11-2022	_	O' O' T' O' I' O' D' O' O'
. 8	28-11-2022	2 2	Chapter 8. Infectious Diseases
(a)	to		Introduction to pathogenic organisms: viruses, bacteri
	3-12-2022	12	fungi, protozoa and worms.
		100	
	5-12-2022	2	Structure, life cycle, pathogenicity, including diseases,
22	to		causes, symptoms and control of common parasites:
1	10-12-2022	2	Trypanosoma, Giardia
nber	12-12-2022		and Wuchereria

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17-12-2022

Duparr Satheash M.Sc. M.Ph.
Asst. Professor of Zoology
Smt. A.S.M. College, Ballan.

Dr. D. Satheesh	Lesson	Plan	for	Year	2022-23

st.				
d	90.97 480°	: 10-10-2022 and End of V sem.	Classes 02/02/2022 74 hrs	
Ŧ	- CClasses	. 10 10 2022 and End of V sem.	. Classes unitellibrate at mis	
1	Commencement of Classes	: 10-10-2022 and End of .		
- 1	Commencement	15 TT 17 A C TT	A Company	

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			V Semester Genetics
	10-10-2022 to 15-10-2022	2	Introduction: History of genetics, branches of genetics, heredity and variation. Practical applications of genetics. Genetics Terminology,
	17-10-2022 to 22-10-2022	2	Interaction of genes: Supplementary factors -9: 3: 3: 1 Example: Comb pattern in fowls. Dominant epistasis-13: 3: plumage colour in Leghorn and yandotte.
	24-10-2022 to 29-10-2022	1	Dominant epistasis - 12:3:1 Coat colour in dogs Recessive epistasis 9: 3: 4 – Coat colour in mouse
	31-10-2022 to 05-11-2022	1	Complementary factors - 9:7, flower colour in sweet peas, Multiple factors / polygenic inheritance –Skin Colour in Man. Lethal gene - Coat colour in mice.
	07-11-2022 to 12-11-2022	2	Multiple Alleles: Characteristics of Multiple Alleles, Inheritance of coat colour in Rabbit and ABO blood groups in human, Rh-factor, Isoalleles, Pseudoalleles and position effect.
November -22	14-11-2022 to 19-11-2022	2	Linkage and Crossing over:Linkage:Theories of linkage, Linkage in Drosophila, linkage in man,
Nove	21-11-2022 to 26-11-2022	2	Crossing over: Mechanism of meiotic Crossing Over Types of Crossing over, Cytological detection of crossing over (Stern's Experiment on Drosophila), Significance of Crossing over
	28-11-2022 to 3-12-2022	2	Sex determination: Chromosomal mechanism of sex determination, Genic balance theory, ynandromorphy and intersexes
	5-12-2022 to 10-12-2022	2.	Sex linked inheritance: Sex linked inheritance in Drosophila. Haemophillia and colour blindness in man. Sex linkage in poultry, Y linked genes
22	12-12-2022 to 17-12-2022	2	Mutations: Chromosomalaberrations- Human Diseases: Klinefelter's Syndrome,
- Jer	19-12-2022 to 24-12-2022	2	Turner's syndrome, Edwards Syndrome, Patau syndrome
December -	26-12-2022 to 31-12-2022	2	Chi- du – chart syndrome and Down's syndrome (Mongolism).,.
	.02-01-2023 to 07-01-2023	2.	Gene mutations – Types of gene mutation and Molecular basis of gene mutations
	09-01-2023 to 14-01-2023	2	Human genetics and eugenics: Common human genetic disorders
2023	16-01-2023 to 21-01-2023	2	Inborn errors of metabolism: Albinism, Phenylketonuria, Alkaptoneuria, Sickle cell anemia.
Jan 2023	23-01-2023 to 02-02-2023	-	Thalassemia, Huntington's chorea, Eugenics.

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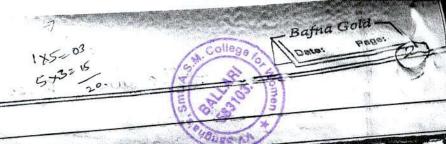
Lesson plan

DATE OF REOPENING:04-05-2022 Commencement of Classes:04-05-2022

	U Semester Dr. Syeda K Tanveer							
Month	Week	Ho urs	Syllabus to be covered					
	04.05.2022	1						
3	04-05-2022 to 07-05-22	4hrs	Chapter 1. Structure and Function of Biomolecules:					
Si Viv	ż		Structure and Biological importance of carbohydrates (Monosaccharides, Disaccharides, Polysaccharides and Glycoconjugates).					
			Lipids (saturated and unsaturated Fatty acids, Tri-acylglycerols, Phospho lipids, Glycolipids and Steroids)					
May 2022	09-05-2022 to 14-05-22	3000980.00	Structure, Classification and General Properties of a-amino acide Essential andnon-essential amino acids, Levels of organization in proteins; Simple and conjugate proteins.					
	16-05-2022 to 21-05-22	4hrs	Chapter 2. Enzyme Action and Regulation					
			Nomenclature and classification of enzymes; Cofactors; Specificity of enzyme action.					
	00.05.000		Isozymes; Mechanism of enzyme action					
	23-05-2022 to 28-05-22	4hrs	Enzyme kinetics; Factors affecting rate of enzyme-catalyzed reactions, Equation of Michaela's -Mendon, Concept of Km and V max.)					
1	30-05-2022 to 04-06-22	4hrs	Enzyme inhibition					
:	04-00-22		Allosteric enzymes and their kinetics; Regulation of enzyme action.					
	8_		Chapter 3. Metabolism of Carbohydrates and Lipids Metabolism of Carbohydrates: glycolysis					
	06-06-2022 to 11-06-2022	4hrs	Chapter 3. Metabolism of Carbohydrates and Lipids Metabolism of Carbohydrates citric acid cycle, gluconeogenesis, phosphate pentose pathway Glycogenolysis and Glycogenesis					
	13-06-2022 to 18-06-2022	4hrs	β-oxidation and omega -oxidation of saturated fatter					
	20-06-2022 to	4hrs	acids with even and oddnumber of carbon atoms					
	25-06-2022	4nrs	Chapter 4. Metabolism of Proteins and Nucleotides					
22			Catabolism of amino acids: Transamination, Deamination, Ureacycle, Nucleotides and vitamins. Peptide linkages.					
	27-06-2022 to 2-07-2022	4hrs	Chapter 5. Digestion and Respiration in humans					

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			and ass Mecha carbol	aral organization and functions of gastrointestinal tract sociated glands. anical and chemical digestion of food: Absorptions of mydrates, lipids, proteins, water, minerals and vitamins;
09-	-07-2022	4hrs	Mech	ology of trachea and Lung. anism of respiration, Pulmonary ventilation; aristory volumes and capacities; sport of oxygen and carbon dioxide in blood, sport of oxygen and carbon curves and the factors
16	1-07-2022 to 5-07-2022	4hrs	Resp	encing it;
2 ylut	8-07-2022 to 3-07-2022 25-07-2022 to 30-07-2022	4hrs	Ch Cor Blo AB S Str	apter 6. Circulation and Excretion in numerical models of blood and their functions; hemopoiesis and clotting: Blood clotting system, Blood groups: Rh-factor, and MN acture of mammalian heart rdiac cycle; Cardiac output and its regulation,
	01-08-2022	o 4h	St	ructure of kidney and its functional unit; Mechanism of urine rmation Juit IV Chapter 7. Nervous System and Endocrinology in
2022	06-08-2022		S	tructure of neuron, resting membrane potential(RMP) Origin of action potential and its propagation across the originated and unmyelinated nerve fibers. Types of
August 2	08-08-2022 13-08-2022	0.55	Hrs !	Endocrine glands - pineal, pituitary, thyroid, paradiyees, pandocrine glands - pineal, pormones secreted by them. Classification of hormones; Mechanism of Hormone action
	16-08-2022 19-08-2022	2000000	3Hrs	Chapter 8. Muscular System in humans Histology of different types of muscle; Ultra structure of skeleta muscle; Molecular and chemical basis of muscle contraction; Characteristics of muscletwitch; Motor unit, summation and teta

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	Dr. Sye	da K T	anveer Fathima Lesson Plan for Year 2022-23				
Comm	encement of Cla	sses:1	0-10-2022 and End of V sem. Classes 02/02/2022 24 hrs				
	V Semester Animal behavior and evolution						
-22	10-10-2022 to 15-10-2022	2	UNIT: I Definition and types of animal behavior Innate behavior: Kinesis, Taxes, Reflexes, Instincts and Motivation				
October -22	17-10-2022 to 22-10-2022	2	Learned behavior: Habituation, Imprinting Conditioned reflex and Insight learning				
0	24-10-2022 to 29-10-2022	1	Social organization in Honey bees				
* *	31-10-2022 to 05-11-2022	1	Social organization in Termites & Macaques.				
77	07-11-2022 to 12-11-2022	2	Unit II: 1. Migration in fishes — Types of migration anatropous and catadromous migration with reference to Hilsa and Anguilla				
November -22	14-11-2022 to 19-11-2022	2	Migration in birds- Methods of studying migration preparation for migration				
Nove	21-11-2022 to 26-11-2022	2	Types of Bird Migration, Orientation and Navigation.				
13.45	28-11-2022 to 3-12-2022	2	2. Biological Clock :Introduction, Definition of chronobiology Biological clock, origin of biological clock various types of Rhythms.				
7	5-12-2022 to 10-12-2022	2	Unit III: Parental care in fishes. & amphibians				
er – 22	12-12-2022 to 17-12-2022	2.	Nesting behavior in birds- types of nests.				
December	19-12-2022 to 24-12-2022	2	Unit-IV Mimicry: definition, types of mimicry wit examples. Coloration-types of coloration				
ă	26-12-2022 to 31-12-2022	2	Evolution: Lamarckism and neo -lamarckism. Darwin and Wallace theory of natural selection.				
	02-01-2023 to 07-01-2023	2	Sythentic theory of evolution. gene mutation, gene flow, genetic drift,				
023	09-01-2023 to 14-01-2023	2	Natural selection and isolation, hardy weinberg law equilibrium				
Jan 2023	16-01-2023 to 21-01-2023	2	Fossils and Fossilization, Types of Fossils,				
3.4	23-01-2023 to 02-02-2023		Significance of fossils. Origin and evolution of man.				

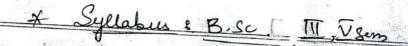
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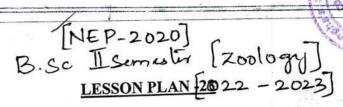


1	Dr. S	yeda K	Tanveer Fathima Lesson Plan for Year 2022-23			
Con	nmencement of C	lasses :	10-10-2022 and End of III sem. Classes 02/02/2022 24 hrs			
	III Semester Molecular Biology Bioinstrumentation & Techniques in Biology					
-22	10-10-2022 to 15-10-2022	2	Chapter 5: Microscopy • Principles and applications of Light microscopy,			
October -22	17-10-2022 to 22-10-2022	2	Dark field microscopy, Phase contrast microscopy			
ő	24-10-2022 to 29-10-2022	1	Fluorescence microscopy			
500 500	31-10-2022 to 05-11-2022	1	Confocal microscopy			
r -22	07-11-2022 to 12-11-2022	2	Electron microscopy (SEM and TEM).			
November -22	14-11-2022 to 19-11-2022	2	Centrifugation: Principles, types, and applications (High speed and Ultracentrifugation)			
Nov	21-11-2022 to 26-11-2022	2	Chromatography: Principle and applications of: TLC, HPLC and			
	28-11-2022 to 3-12-2022	2	Chapter 7: Biochemical Instrumentation 6 hrs • Colorimetry			
22	5-12-2022 to 10-12-2022	2	Spectrophotometry: Beer-Lambert's law, Absorption spectrum,			
. Jer – 2	12-12-2022 to 17-12-2022	2	UV-VL Spectrophotometer. • pH meter, measurement of pH •.,			
December –	19-12-2022 to 24-12-2022	2	Principle, applications and safety measures of Radio-tracer techniques - Autoradiography			
Δ	26-12-2022 to 31-12-2022	2:	Chapter 8: Molecular Techniques • Principle and applications of Agarose gel-electrophoresis,			
	02-01-2023 to 07-01-2023	2	SDS-PAGE, DNA Sequencing • (Sanger's Di deoxy method), PCR			
Jan 2023	09-01-2023 to 14-01-2023	2	DNA Fingerprinting, ELISA,			
Jan ,	16-01-2023 to 21-01-2023	2	Southern Blotting and Western Blotting			
	23-01-2023 to 02-02-2023	2	Revision			

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	Month .	Hours	Syllabus to be covered
*		16	Chapter 1. Structure and Function of Biomolecules:
	May -23		 Structure and Biological importance of carbohydrates (Monosaccharides, Disaccharides, Polysaccharides and Glycoconjugates). Lipids (saturated and unsaturated Fatty acids, Tri-acylglycerols, Phospho lipids, Glycolipids and Steroids) Structure, Classification and General Properties of a-amino acids; Essential andnon-essential amino acids, Levels of organization in proteins; Simple and conjugate proteins
		75	Chapter 2. Enzyme Action and Regulation Nomenclature and classification of enzymes; Cofactors; Specificity of enzyme action. • Isozymes; Mechanism of enzyme action • Enzyme kinetics; Factors affecting rate of enzyme-catalyzed reactions; Equation of Michaela's -Mendon, Concept of Km and V max,
		20	Enzyme inhibition Allosteric enzymes and their kinetics;
			 Regulation of enzyme action Chapter 3. Metabolism of Carbohydrates and Lipids Metabolism of Carbohydrates: glycolysis, citricacid cycle, gluconeogenesis,phosphate pentose pathway Glycogenolysis and Glycogenesis Lipids- Biosynthesis of palmiticacid; Ketogenesis, β-oxidation and omega -oxidation of saturated fatty-acids with even and oddnumber of carbonatoms
<u> </u>			Chapter 4. Metabolism of Proteins and Nucleotides
	June -23	28	Catabolism of amino acids: Transamination, Deamination, Ureacycle, Nucleotides and vitamins
	_	=	Peptide linkages Chapter 5. Digestion and Respiration in humans
		01 E	 Structural organization and functions of gastrointestinal tract and associatedglands.
			 Mechanical and chemical digestion of food; Absorptions of carbohydrates, lipids, proteins, water, minerals and vitamins
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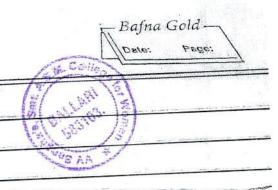
	16	 Physiology of trachea and Lung.
		Mechanism of respiration, Pulmonary ventilation; Respiratory 1.
	12	Respiratory volumes and appacition.
		Respiratory volumes and capacities; Transport of oxygen
	1 2	and carbon dioxide in blood, Respiratory pigments,
		Dissociation curves and the factors influencing it;
		Control of respiration.
July -23		Chapter 6. Circulation and Excretion in humans
E y		
ר י	1027	Components of blood and their functions; hemopoiesis
	8 %	ABO and MN
0		Structure of mammalian heart
The "		Cardiac cycle; Cardiac output and its regulation
e s ^e	, n	Electrocardiogram, Bloodpressure and its regulation
		Structure of kidney and its function
4		Structure of kidney and its functional unit; Mechanism of uring
	10	Chanton 7 N
		Chapter 7. Nervous System and Endocrinology in humans
		Structure of neuron, resting membrane potential(RMP)
		Origin of action potential Origin of action potential
As a W	- 1	Origin of action potential and its propagation across the myelinated and propagation across the
		of the second service
		Synapse
		Endocrine glands - pineal, pituitary thyroid popularity
		partitions and adrenal normones secreted by them
		Classification of hormones; Mechanism of Hormone action. Chapter 8 Myseules 8.
		Chapter 8. Muscular System in humans
s mile " la	· ·	
		Histology of different types of muscle; Ultra structure of skeletal muscle; Male 1997
		skeletal muscle; Molecular and chemical basis of muscle
	220	contraction: Characteristics of muscle
		contraction; Characteristics of muscletwitch; Motor unit, summation and tetanus

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Lenon Plan.



	Ms L	akshmi	Sowjanya V Lesson Plan for Year 2022-23
		10	-10-2022 and End of III sem. Classes 02/02/2022 24 hrs
omm	encement of Class	ses: 10	10-2022 and 245 on & Techniques in Biology
	III Semester Mo	olecular	· Biology Bioinstrumentation & Techniques in Biology
2	10-10-2022 to	2	Chapter 1: Process of Transcription • Fine structure of gene
7- Joe	1 / 10 2022	2	• RNA polymerases - types and functions Transcription in
October -22	22-10-2022 24-10-2022 to	1	Chapter 2: Process of Translation • Genetic code and its salient
	29-10-2022 31-10-2022 to 05-11-2022	1	Translation in prokaryotes and eukaryotes
77	07-11-2022 to 12-11-2022	2	Translation in eukaryotes
nber -	14-11-2022 to 19-11-2022	2	Regulation of gene expression-I
November -22	21-11-2022 to 26-11-2022	2	Regulation of gene expression in prokaryotes- lac operor (inducible)
	28-11-2022 to 3-12-2022	2	trp operon (repressible) in E. coli
144	5-12-2022 to 10-12-2022	2	Regulation of gene expression in eukaryotes - Role of chromatin (euchromatin and heterochromatin) in gene expression
r-22	12-12-2022 to 17-12-2022	2	Regulation of gene expression in eukaryotes - Role of emeaning the confidence of expression (euchromatin and heterochromatin) in gene expression
December – 22	19-12-2022 to 24-12-2022	2	Post-transcriptional modification: capping, spream,
Dec	26-12-2022 to	2	Concept of RNA editing (mRNA), gene silencing, and, KNA
7	31-12-2022 02-01-2023 to 07-01-2023	2.	Regulation of gene expression-II • Post-translational modifications: purpose, advantages, and significance; glycosylation, methylation, phosphorylation, and acetylation.
1 2023	09-01-2023 to 14-01-2023	2	Post-translational modifications: purpose, advantages, and significance; glycosylation, methylation, phosphorylation, and acetylation. Intracellular protein degradation (lysosomal autophagy a
Jan	16-01-2023 to 21-01-2023	2	ubiquitin proteosome pathway).
	23-01-2023 to 02-02-2023	2	Revision

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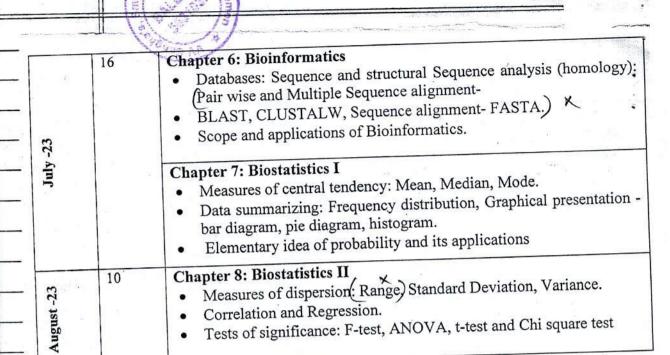
LESSON PLAN -23 ALTY Sem.

3.4th	Hours	Syllabus to be covered (56 hours)
Month	16	 Chapter 1: Principles of Gene Wampard Recombinant DNA Technology: Introduction, steps involved. Restriction Enzymes and Ligases and Nucleic acid modifying
		 enzyme) Gene cloning Vector: Concept of plasmids-pBR322, Lamda phage vectors, cosmids Gene transfer techniques (Direct and indirect). (Screening and selection of recombinant colonies) ×
May -23		 Chapter 2: Applications of Genetic Engineering Transgenic animals (Transgenic cow, Transgenic Fish); transgenic plants (cry protein); Gene silencing (Knock out and Knock in mouse). Production of Human Recombinant insulin and Hybridoma technology: Synthesis and applications of Monoclonal antibodies Gene Therapy (SCID Biosensors and its applications)
	20	 Chapter 3: Introduction to the Immune System Defense against diseases: Introduction, First and second line of defense, Innate and acquired immunity; Antigen presenting cells (APC's), Role of B and T-lymphocytes (Humoral immunity and cell mediated immunity), primary and secondary immune response. Types of immunity Functional aspects of organs of the Immune system - Thymus and bone marrow, spleen, Lymph Node, Small intestine and Live (Peyer's patches and Von Kupffer cells).
June -23		 Chapter 4: Antigens and Antibodies Antigens and haptens: Properties (foreignness, molecular size heterogeneity). B and T cell epitopes. Structure of IgG and functions of different classes immunoglobulins. Major histocompatibility complex - Structure of MHC I & II.
		Chapter 5: Clinical Immunology Immunity against diseases of viral, bacterial and protozoan infection Vaccines: Types and Uses Immunization schedule for children. Transplantation immunology: Transplantation of organ-Types, grejection and Immuno-suppressors.

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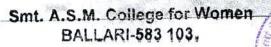
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Lab IV Course Content

List of experiments 14 units (1 Unit- 4hrs)

- 1. Calculate the mean, median, mode and standard deviation (Measurement of pre and post clitellar lengths (with suitable examples). 2
- 2. Measure the height and weight of all students in the class and apply statistical measures.1
- 3. Determination of ABO Blood group and Rh factor.1
- 4. To study Restriction enzyme digestion using teaching kits (Demonstration only).1
- 5. To detect genetic mutations by Polymerase Chain Reaction (PCR) using teaching kits ! (Demonstration only).2
- 6. Demonstration of agarose gel electrophoresis for detection of DNA.1
- 7. Demonstration of Polyacrylamide Gel Electrophoresis (PAGE) for detection of proteins.2
- 8. To calculate molecular weight of unknown DNA and protein fragments from gel pictures (https://youtube/mCiCiO0cfbg)2
- 9. To learn nucleotide sequence database.1
- 10. To learn sequence alignment: Pairwise alignment (Protein/ DNA).1

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LESSON PLAN -23

Month	Hours	Syllabus to be covered
May -23	16	History of cell biology and its branches. Cell Theory Study of light and electron microscope cell fractionation, ultra structure of animal cell. Cell organelles Structure and functions of Plasma membrane Mitochondria, Golgi complex Lysosomes, endoplasmic reticulum Ribosomes, Nucleus Centrioles, cytoskeletal elements Cell cycle: Mitosis& meiosis and regulations of cell cycle Biology of cancer: Types of cancer,& characteristics of cancer cell
June -23	e e	Introduction: Branches of Embryology, Scope of Embryology, Theories of development, pre formation and epigenetic theory.
July -23	16	Spermatogenesis and oogenesis – comparison between spermatogenesis and oogenesis Kinds of fertilization, approach of gametes, fertilization and antifertilization, acrosome reaction – cortical reaction Amphimixis monospermic polyspermic fertilization, significance of fertilization Types of cleavage – Holoblastic, meroblastic, radial and spiral types with examples Effect of yolk on cleavage
	. 16	Early development of frog:Structure of ovum, cleavage Early development of frog:blastulation and gastrulation. Early development of chick: Structure hen's egg, cleavage blastulation, gastrulation origin and structure of primitiv streak Early development of chick: structure of 24 48 hours chick embryos. Extra embryonic membranes.
August -23	55	Reproductive system and Early development of human: Menstrual cycle and its regulation Early development of human: Menstrual cycle and its regulation development of human: Menstrual cycle and its regulation development of human:
5		Structure of sperm and ovum, ovulation, cleavage morula, blastocyst a implantation. Placenta introduction Placenta: Morphological and histological classifications of placenta with examples Placenta: structure and functions placenta – yolk sac placenta, allantoic placenta. Modern trends in hum reproduction: Sperm bank, IVF, cloning, surrogate mother multiple births twins
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SEMESTER VI. SYLLABUS FOR PAPER 6.1 CELL BIOLOGY AND DEVELOPMENTAL BIOLOGY

A. CELL BIOLOGY:	20 Hrs .
1) History of cell biology and its branches. Cell Theory	
00.1	
— 2) Study of light and electron microscope, cell fractionation, ultra structure of	of animal cell. 3 Hrs 08 Hrs
0) C II	00140
Structure and functions of Plasma membrane, Mitochondria, Golgi c endoplasmic reticulum, Ribosomes, Nucleus., Centrioles, cytoskeletal ele	EIIICIIIS
A G. II and Mitaging and majoris regulations of cell cycle.	04 1113
4) Cell cycle: Mitosis and melosis, regulations of concer of cancer cell, 5) Biology of cancer: Types of cancer, characteristics of cancer cell,	carcinogenic agent
(physical, chemical and biological)	03 hrs
B. DEVELOPMENTAL BIOLOGY: (40 Hrs)	02 1
() I to destion	03 hrs
Branches of Embryology, Scope of Embryology, Theories of developme	nt, pre formation and
epigenetic theory.	
7) Gamatogenesis:	05hrs
Spermatogenesis and oogenesis – comparison between spermatogenesis	04 hrs
_ 8) Fertilization:	
Vinds of fertilization approach of gametes, fertilization and antile	enermic fertilization
reaction – cortical reaction – Amphimixis, monospermic and poly	sperime termization
significance of fertilization	03 Hrs
9) Cleavage:	
Types of cleavage – Holoblastic, meroblastic, radial and spiral types wit	in examples. Effect s
yolk on cleavage.	04 hrs
10) Early development of frog:	
Structure of ovum, cleavage, blastulation and gastrulation.	08 Hrs
11) Early development of chick: Structure of hen's egg, cleavage, blastulation, gastrulation, origin and	
structure of hen's egg, cleavage, blastdation, gast dation, original streak, structure of 24, and 48 hours chick embryos. Extra embryonic n	nembranes.
12) Reproductive system and Early development of human:	06 hrs
Menstrual cycle and its regulation. Structure of sperm and ovum, ovulat	ion, cleavage, morul
Menstrual cycle and its regulation. Structure of special menstrual cycle and implantation	
blastocyst and implantation.	02 hrs
— 13) Placenta: Morphological and histological classifications of placenta with example.	amples, structure ar
functions of placenta – yolk sac placenta, allantoic placenta.	
14) Modern trends in human reproduction:	04 hrs
Sperm bank, IVF, cloning, surrogate mother and multiple births – twins	
Sperin bank, 141, cloming, burregue	

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DATE OF REOPENING:04-05-2022 Commencement of Classes: 04-05-2022

YUNUS BASHA B.Sc VI Semester Syllabus to be covered Week Но Month

	• , • • • • • • •	to	4hrs	A. Physiology:
10 10	07-05-22			UNIT I Introduction: Branches of Physiology, Scope of physiology. Digestion: Mechanical digestion and chemical digestion of proteins,
May 2022	09-05-2022 14-05-22	to	4hrs	Digestion: Mechanical digestion and chemical digestion of carbohydrates and lipids. UNIT I I Respiration: External and internal respiration —
	16-05-2022 21-05-22	to	4hrs	Respiratory pigments Hemoglobin, haemocyanin and haemoerythrin. Transport of O_2 and CO_2
9/3	23-05-2022 28-05-22	to	4hrs	UNIT I II Circulation: Type of circulation- structure, functions and regulation of human heart, blood pressure,
6)	30-05-2022 04-06-22	to	4hrs	composition of human blood, neurogenic and myogenic hearts
June 2022	06-06-2022 11-06-2022	to	4hrs	Nitrogen excretion: Nitrogen excretion in aquatic and terrestrial animals- Ammonotelism and ureotelism and uricotelism with example.
Jun	13-06-2022 18-06-2022	to	4hrs	Ornithine cycle. Physiology of urine formation UNIT IV Muscle contraction: Principle type of muscles. Ultrastructure of striated muscle,
	20-06-2022 25-06-2022	to	4hrs	contractile proteins-myosin, actin, tropomyosin, actinin and Troponin
3	27-06-2022 02-07-2022	to	4hrs	Mechanism of muscle contraction and relaxation – sliding filament theory.
	04-07-2022 09-07-2022	to	4hrs	Nervous co-ordination: Structure of Neuron, Nature and conduction of nerve impulse – synaptic transmission & neuromuscular junction.
73	11-07-2022 16-07-2022	to	4hrs	UNIT V Endocrine System: Function of mammalian endocrine glands pituitary, thyroid
July 2022	18-07-2022 23-07-2022	to	4hrs	Parathyroid, pancreas, adrenal, testis, ovary & Placenta. Hormonal changes in women.
3 8 8	25-07-2022 30-07-2022	to	4hrs	B.Biochemistry UNIT VI Enzymes: Classification of enzymes (IUB system), Properties of enzymes, Mechanism of enzyme catalyzed action lock and key method and induced fit hypothesis.
2022	01-08-2022	to	4hrs	UNIT VIII Vitamins: Fat soluble vitamins (A,D,E and K) water soluble vitamins (B complex and vitamin C) functions and deficiency symptoms
August 2022	08-08-2022 13-08-2022	to	3Hrs	Glycolysis, Kreb's cycle, ETP (Electron Transport Phosphorylation).
γn	16-08-2022 19-08-2022	to	3Hrs	Revision

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2021-200 War

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			ATE OF REOPENING:18-10-2021
	2	D	Classes: 18-10-2021, V Semester Genetics: D. Satheesh
	Commencen	Hours	Syllabus to be covered
Month.	VIOLUI WOOK		TT' town of genetics Divilled UI South
100 800	18-10-2021	4	Introduction: History of genetics, ordanies of genetics. heredity and variation. Practical applications of genetics.
	to 23-10-2021		Genetics Terminology,
	23-10-2021		***
-	25-10-2021	4	Chromosomes: Chromosome number, size chromosomal
1-2	to	1	1 1 and types pulleture with
ope	30-10-2021		Heterochromatin and euchromatin. Giantchromosomes
October -21	30 10 2021		lamp brushchromosomes.
	01-11-2021	2	Tar I is saids and protein biosynthesis. Illifoduction.
	to	-	at constite material - (IIIIIIIII)
	06-11-2021		of the of muclaic acids structure of DIVA. Watson and
	00 11 20-1		. 1 Dala madel replication of DNA. Politis of Division
	8-11-2021	4	CDAIA Constitute code properties of genetic code,
	to	1	Types of RNA. Genetic code, properties biosynthesis. wobble hypothesis, mechanism of protein biosynthesis.
	13-11-2021		Interaction of genes: Supplementary factors -9: 3: 3: 1
_	15-11-2021	4	Interaction of genes: Supplementary lactors Example: Comb pattern in fowls. Dominant epistasis-13: 3:
2	to		Example: Comb pattern in Towls. Dominant epistasis plumage colour in Leghorn and yandotte. Dominant epistasis plumage colour in Leghorn and yandotte.
bei	20-11-2021		plumage colour in Legnorii and yandotte. Bernard 9: 3: 4 – 12:3:1 Coat colour in dogs Recessive epistasis 9: 3: 4 –
l em			- 12:3:1 Coat colour in dogs Recessive opional
November -21			Coat colour in mouse Complementary factors - 9: 7, flower colour in sweet peas,
	22-11-2021	4	Complementary factors - 9:7, Hower colour in Multiple factors / polygenic inheritance – Skin Colour in
	to		Multiple factors / polygeme innertance
	27-11-2021		Man. Lethal gene - Coat colour in mice. Multiple Alleles: Characteristics of Multiple Alleles, Multiple Alleles: Characteristics of Multiple Alleles,
	29-11-202	4	Multiple Affects, officers in Rabbit and ABO blood groups
	to		Inheritance of coat colour in Rabbit and Pales and position in human, Rh-factor, Isoalleles, Pseudoalleles and position
	4-12-2021		AACSON TO THE STATE OF THE STAT
			Linkage and Crossing over:Linkage:Theories of linkage,
	6-12-2021	4	Linkage in Drosophila, linkage in man,
	to 11-12-202	1	Lilikage in Brosepants
	13-12-202		Crossing over: Mechanism of meiotic Crossing Over, Types
	to		Cytological defection of clossing
	18-12-202	21	of Crossing over, Cytological detection (Stern's Experiment on Drosophila), Significance of
	7	-	Crossing over
	20-12-202	21	Chromosomal mechanism of se
	to		determination. Chromosomas determination, Genic balance theory, Gynandromorphy an
	25-12-20	21	determination, Genic balance theory, Symbol inheritance i intersexes Sex linked inheritance: Sex linked inheritance i
	-		Drosophila. Haemophillia and colour blindness in man. Se
1	12	- 60	linkage in poultry, Y linked genes Mutations: Chromosomalaberrations- Human Diseases:
	27-12-20	21 4	Mutations: Chromosomalaberrations Truman's syndrome Edwards
	to to	23 35	Klinefelter's Syndrome, Turner's syndrome, Edwards
×	팅 01-01-20	22	Syndrome, Patau syndrome Chi- du – chart syndrome and
8	27-12-20 to 01-01-20		Down's syndrome (Mongolism).,. 4 Gene mutations – Types of gene mutation and Molecular
-	8 03-01-20	122	4 Gene mutations – Types of gene mutations

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	to 08-01-		basis of gene mutations
	2022		Constant to
January -22	10-01-2022 to , 15-01- 2022	3	Human genetics and eugenics: Common human genetic disorders Inborn errors of metabolism: Albinism, Phenylketonuria, Alkaptoneuria, Sickle cell anemia. Thalassemia, Huntington's chorea, Eugenics.
	17-01-2022 to 22-01- 2022	4	Genetic engineering and biotechnology: Introduction. Recombinant DNA technology, (Isolation of Gene, Endonucleases, Palindrome Sequence, Cloning Vectors-Plasmids, Gene Cloning),
	24-01-2022 to 29-01- 2022	3	Production of insulin by r DNA technology, PCR and, DNA finger printing.DNA vaccines.
	31-01-2022 to 05-02- 2022	4	Applications of genetic engineering in Medicine, food technology and agriculture. Useful and harmful effect of biotechnology
February- 22	07-02-2022 to 12-02- 2022	4	Revision
	14-02-2022 to 19-02- 2022	4	Revision
	21-02-2022 to 26-02- 2022	4	Revision
	28-02-2022	1	

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Lesson Plan

	Commence	ment of	E OF REOPENING :04-05-2022 Classes :04-05-2022, VI Semester : D. Satheesh
Month		Hours	Syllabus to be covered
	04-05-2022 to 07-05-22	4hrs	 UNIT I 1) Introduction: Definition- Subdivision of Ecology-Scope of Ecology. 2) Abiotic Factor: ➤ Light-effect of light on animals,
	09-05-2022 to 14-05-22	4hrs	Temperature - thermal stratification-effect of temperature on animals, Adaptations to extreme temperature.
22	e e		1) Animal relationships : Mutualism, commensalism parasitism ammensalism. Predation and competition with relevant examples
7.70	16-05-2022 to	4hrs	UNIT III
May 2022	21-05-22		1) Ecosystem: Components and functions of ecosystem. Natural
			ecosystems and man engineered ecosystem. Types of food chains with examples, Food web, ecological pyramids.
	23-05-2022 to 28-05-22	4hrs	Study of pond as Typical Ecosystem - Zonation, abioticomponents and biotic components UNIT IV Habitat Ecology:
, , , , , , , , , , , , , , , , , , ,	:		Marine habitat: Physico-Chemical Feature, ecological zonation and classification of marine biota, Ecological adap
			Estuarine habitat : Physico-Chemical Features an Biota. Mangroves.
	30-05-2022 to 04-06-22	23	Fresh water habitat: Physico-Chemical Features of Lentic and lotic water bodies. Ecological adaptation of fresh water animals living in Lotic Water Bodies
22	06-06-2022 to 11-06-2022	4hrs	Terrestrial habitat- A brief account of biomes (Characteristics and fauna of Tundra, taiga, Forests & Deserts. Faunal adaptations to Desert Conditions
June 2022	13-06-2022 to 18-06-2022		UNIT VPopulation Ecology: Population density, Natality and Mortality, ag distribution, population growth rate, population growth curves.
	20-06-2022 to 25-06-2022	4hrs	 Environment pollution: Definition, Pollutants are types of Pollution- Air Pollution, Water. Pollution Soil Pollution — Sources, effect and control.

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		where the contract	
	27-06-2022 to 02-07-2022	4hrs	ZOOGEOGRAPHY AND WILD LIFE BIOLOGYUNIT VI1) Zoogeographical realms: Zoogeographical realms (with subdivision) of world, with climatic conditions and examples of characteristic fauna.
July 2022	04-07-2022 to 09-07-2022	4hrs	2) Geographic distribution of animals: Continuous and discontinuous distributions with examples — Barriers of dispersal — topographic and vegetative barriers, large bodies of water as barriers climatic barriers
	11-07-2022 to 16-07-2022	4hrs	1) Wilde Life Definition, Wild life problems -Hunting, over harvesting, habitat loss, Importance of Wild Life Conservation and management
	18-07-2022 to 23-07-2022	4hrs	.2) Distribution of wild life in India Wild fauna in the Himalayan ranges, the peninsular Indian Sub region.
July 2022	25-07-2022 to 30-07-2022	4hrs	UNIT VIII: Agencies engaged in wild life conservation: Indian Board For Wildlife (IBWL), Wildlife Institute of
			India (WII) Central Zoo Authority of India (CZA), Bombay Natural.
August 2022	01-08-2022 to 06-08-2022	4hrs	History Society (BLAHS); Project Tiger, Wild life (protection) Act 1972. World Wide j Fund for Nature (W,WF), CITES. (Convention of international trade in
			endangered species of wild life flora J and fauna), Ramsar convention.
	08-08-2022 to 13-08-2022	3Hrs	CBD (Convention on Biological Diversity), Trade Record Analysis of Flora Fauna in Commerce (TRAFFIC) IUCN- Red data book
	16-08-2022 to 19-08-2022	3Hrs	

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Smt. A.S.M. College-for-Women, Ballari-583103.

LESSON PLAN

Date / /

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DATE OF REOPENING:18-10-2021	
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Commencement of Classes: 18-10-2021,	V semester P	aper 5.2: Neha Naseeba	<u>S</u>

Sid I	Week	Hours	asses:18-10-2021, V semester Paper 5.2: Neha Naseeba S Syllabus to be covered
n	WEEK	110013	0)
	18-10-2021 to	4	UNIT: I Definition and types of animal behavior
	23-10-2021		Innate behavior: Kinesis, Taxes, Reflexes, Instincts and Motivation
	25-10-2021 to	4	Learned behavior: Habituation, Imprinting
	30-10-2021		Conditioned reflex and Insight learning
	01-11-2021 to	2	Social organization in Honey bees
	06-11-2021		Mindian in fisher
	8-11-2021 to	4	Social organization in Macaques. Unit II: i.Migration in fishes –
	13-11-2021	ii	reference to Hilsa and Anguilla
İ	15-11-2021 to	4	Migration in birds- Methods of studying migration, preparation for
	20-11-2021		migration
	22-11-2021 to	4	Types of Bird Migration, Orientation and Navigation.
	27-11-2021		# # # # # # # # # # # # # # # # # # #
	29-11-2021 to	4	Biological Clock :Introduction, Definition of chronobiology Biologica
	4-12-2021		clock, origin of biological clock
			various types of Rhythms.
	6-12-2021 to	4	
	11-12-2021		Unit III: Parental care in fishes
	13-12-2021 to	4	T. : TO. December of a complishing
	18-12-2021	2	Unit III: Parental care in amphibians Nesting behavior in birds- types of nests.
	20-12-2021 to 25-12-2021	3	Nesting behavior in ords- types of nests.
	27-12-2021 to	4	Unit-IV Mimicry: definition, types of mimicry with examples
•	01-01-2022	1	Coloration- types of coloration
	01 01 2022		
	03-01-2022 to	14	Evolution: Theories of organic evolution: Lamarckism and Neo
	08-01-2022	5577	Lamarckism. Darwin - Wallace theory of natural selection,
	10-01-2022 to	3	Synthetic theory of evolution. Gene mutation, gene flow, genetic drift
	15-01-2022		Natural selection and isolation,
ß			
	17-01-2022 to	4	Speciation: Concept of species - Sympatric and Allopatric speciation
	22-01-2022		
	24-01-2022 to	3	Microevolution and Macroevolution
	29-01-2022]	morocrotudon and macros constant
	27-01-2022		
	31-01-2022 to	4	Fossils and Fossilization, Types of Fossils,
No.	02-02-2022		Significance of fossils. Origin and evolution of man
No.			
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Smt. ASM College For Women, BALLARI.

DATE OF REOPENING :05-05-2021

B.Sc. II, IV, VI Semester 2020-21

Commencement of Classes:05-05-2021,

583103.

II Semester: Biology of Chordata and Osetology

Lakshmi Sowjanya V

Month	Month Week		Syllabus to be covered
	06-05-21 to	2	Introduction to chordate: general characters and outline
	15 -05-21		classification of phylum chordate up to classes with examples.
May -21	17-05-21 to	2	General characters of subphylum, urordata, cephalochoradaya
Лау	22 -05-21		and vertebrata.
	24-05-21 to	2	Class cyclostomata: General characters with suitable
	31-05-21		examples.
	01-06-21 to	2	General organization of petromyzon (in brief)
	05-06-21		
1 2	07-06-21 to	2	Pisces: General characters
6	12-06-21		
June-21	14-06-21 to	2	Classification with suitable examples of Oestichthyes and
7	19-06-21		
	21-06-21 to	2	Classification of Chondryichthyes
	30-06-21	182	
	01-07-21 to	2	Amphibia: General characters
	03-07-21		
	05-07-21 to	2	Classification up to [living only] orders with suitable
L	10-07-21		examples.
7-	12-07-21 to	2	Classification up to [living only] orders with suitable
12-Yun	17-07-21		examples.
r	19-07-21 to	2	Ecology and distribution of Amphibia.
	24-07-21		
	26-07-21 to	2	Hyla, Bufo, Salamander, Ichtyophis
	31-07-21		
	02-08-21 to	2	Reptilia: General characters and classification up to
	07-08-21		orders
	09-08-21 to	2	Living orders only with suitable examples.
	14-08-21		
	16-08-21 to	2	Structure and Poison apparatus of Cobra.
_	21-08-21		TT.
ugust -21			
nst	23-08-21 to	2	Poisonous [Krait, Viper, Cobra, Hydrophis]
Aug	28-08-21		
1	20.09.21 4-	12	Non Deigenous [Dethoi: Tembles Nation Found 1 6
	30-08-21 to 04-09-21	2	Non Poisonous [Python, Typhlop, Natrix, Eryx] snakes of
	04-09-21		India
	06-08-21 to	2	Revision
	04-09-21	-	7.7.7.7.7.7

lead of the Department of Zoology Smt. A.S.M. College for Women, Ballari-583103.

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ಸ್ಥಳ: ಬಳ್ಳಾರಿ.

ದಿನಾಂಕ : 29/09/2015.

ಇವರಿಂದ, ಕೋಳೂರು ಮಲ್ಲಿಕಾರ್ಜನ ಗೌಡ, ಅಧೀಕ್ಷಕರು, ವುಂಕಿ ಸಣ್ಣರುದ್ರಪ್ಪ ಕಾನೂನು ಮಹಾವಿದ್ಯಾಲಯ, ಶೀ.ವೈ.ನಾಗೇಶ ಶಾಸ್ತಿನಗರ, ಬಳ್ಳಾರಿ - 583103

ಇವರಿಗೆ, ಮಾನ್ಯ ಆಧ್ಯಕ್ಷರು\ಕಾರ್ಯದರ್ಶಿಗಳು, ವೀರಶೈವ ವಿದಾವರ್ಧಕ ಸಂಘ, ಗಾಂಧಿನಗರ, ಬಳ್ಳಾರಿ -583103 ಮಾನ್ಯರೇ,

ದಿನಾಂಕ : 25-10-2015 ರಂದು ಭಾನುವಾರ ನನ್ನ ಮೊಮ್ಮಗಳ ಹುಟ್ಟು ಹಬ್ಬದ ಆಚರಣೆ ಇರುತ್ತದೆ. ಆದ್ದರಿಂದ ತಾವುಗಳು ದಯಾಮಾಡಿ ದಿನಾಂಕ : 25-10-2015 ರಂದು ಸಂಘದ ಸಭಾಂಗಣವನ್ನು ನೀಡಬೇಕಾಗಿ ವಿನಂತಿ. ಭಾನುವಾರವಿರುವುದರಿಂದ ಕಾಲೇಜಿಗೆ ಯಾವುದೇ ತೊಂದರೆ ಇರುವುದಿಲ್ಲ.

ಧನ್ಯವಾದಗಳೊಂದಿಗೆ,

(ಕೋಳೂರು ಮಲ್ಲಿಕಾರ್ಜುನ ಗೌಡ)

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Head of the Department of Zoology Amt. A.S.M. College for Women. Ballari-583103.

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DATE OF REOPENING :05-05-2021 B.Sc. II, IV, VI Semester 2020-21

Commencement of Classes: 05-05-2021,

IV Semester: Physiology and Biochemistry

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Month	Week	Hours	Syllabus to be covered	
	06-05-21 to 15 -05-21	2	Introduction to the syllabus	
gg 22 -05 24-05	17-05-21 to 22 -05-21	2	Muscle contraction: Principle types of muscles. Ultrastructure of striated musciles	
	24-05-21 to 31-05-21	2	contractile proteins – myosin, actin, tropomyosin, troponin and actinin.–	
05-0 07-0 12-0 14-0 19-0 21-0	01-06-21 to 05-06-21	2	contractile proteins – myosin, actin, tropomyosin, troponin and actinin.–	
	07-06-21 to 12-06-21	2	Mechanism of muscle contraction and relaxation the sliding filament theory	
	14-06-21 to 19-06-21	2	Nervous co-ordination: Nature and conduction of nerve impulse	
	21-06-21 to 30-06-21	2	Neuromuscular and synaptic transmission junction neurotransmitters	
03-07-21 05-07-21 t 10-07-21 12-07-21 t 17-07-21		2	Endocrine system: Functions of mammalian endocrine glands pituitary, thyroid,	
		2	parathyroid, ,testis, ovary,	
		2	pancreas, adrenals, placenta and pineal gland.	
		2	Enzymes: Classification of enzymes (IUB system),	
	26-07-21 to 31-07-21	2	Mechanism of enzyme catalyzed action – lock and key method, induced fit hypothesis.	
07-0 09-0 14-0 16-0 21-0 23-0 28-0 30-0	02-08-21 to 07-08-21	2	Specificity of enzymes, reversibility of enzyme action,	
	09-08-21 to 14-08-21	2	enzyme inhibitors, cofactors	
	16-08-21 to 21-08-21	2	Vitamins: Fat soluble vitamins (A, D, E and K) functions and deficiency symptoms.	
	23-08-21 to 28-08-21	2	Water soluble vitamins (B complex and vitamin C) functions and deficiency symptoms.	
	30-08-21 to 04-09-21	2	Glycolysis, Kreb,s cycle,	
September -21	06-08-21 to 04-09-21	2	ETP (Electron transport phosphorylation)	
	06-09-21 to 11-09-21	2	Revision	
	13-09-21 to 22-09-21	2	Revision	

Smt. A.S.M. College for Women, Ballari-583103.

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- 4. If a Teacher Fellow fails to complete his/her Ph.D/M.Phil programe and leaves it midway the /she has to refund the entire amount paid to him/her by the UGC during his/her Teacher Fellowship.The teacher must give an undertaking in this regard (Encl I).
- 5. An undertaking from the teacher fellow to the effect that he will complete the research work within the allottedtenure/plan period failing which he will refund the fellowship grant, substitute teacher salary to UGC-SWRO, may also collected before relieving the Teacher Fellow under the Scheme.
- 6. In case, at later date, the details given in the application form are found to be incorrect and/or some deficiency in the selection committee proceedings, the above award will be withdrawn and the teacher fellow has to refund the entire amount.
- 7. The approval and sanction in respect of the substitute teachers to be appointed in place of teacher fellows will be conveyed on receipt of all documents as prescribed in the guidelines:

The Teacher should be relieved for the award only on the production of his/her Ph.D Registration.

Yours faithfully

(Dr.N. Gopu Kumar) Deputy Secretary

Copy to:

The Dean/Director, College Development Council GULBARGA UNIVERSITY GNANA GANGA GULBARGA - 585 106

MR K.S.RAMANAIK
SEL GR. LECTURER
Dept of HISTORY
SMT. ALLUM SUMANGALAMMA MEMORIAL COLLEGE FOR WOMEN
SMT. ALLUM SUMANGALAMMA ROAD, GANDHI NAGAR
BELLARY - 583 103

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PRINCIPAL Smt. ASM College For Women, BALLARI

DATE OF REOPENING :05-05-2021 B.Sc. II, IV, VI Semester 2020-21

Commencement of Classes: 05-05-2021,

IV Semester: Physiology and Biochemistry

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Month	Week	Hours	Syllabus to be covered
	10-05-21 to 15 -05-21	3	Introduction to the syllabus
May -21	17-05-21 to 22 -05-21	3	GC of Aves and classification
	24-05-21 to 31-05-21	4	Classification of aves with examples upto orders. Flight adaptation of birds
	01-06-21 to 05-06-21	3	Flight adaptation of birds
-21	07-06-21 to 12-06-21	3	Economic importance of birds.
June- 21	14-06-21 to 19-06-21	3	GC of Mammals and classification upto sub classes with suitable examples
	21-06-21 to 30-06-21	3	Study of rat- morphology and digestive system
	01-07-21 to 03-07-21	3	Study of digestive system and ateria l& venous system
	05-07-21 to 10-07-21	3	Atrial & venous system and reproductive system of rat.
July -21	12-07-21 to 17-07-21	3	Reproductive system of rat
5	19-07-21 to 24-07-21	2	GC of Aves and classification
	26-07-21 to 31-07-21	2	Classification of aves with examples upto orders. Flight adaptation of birds
	02-08-21 to 07-08-21	2	Flight adaptation of birds
21	09-08-21 to 14-08-21	2	Economic importance of birds.
August -21	16-08-21 to 21-08-21	2	GC of Mammals and classification upto sub classes with suitable examples
Au	23-08-21 to 28-08-21	2	Study of rat- morphology and digestive system
	30-08-21 to 04-09-21	2	Study of digestive system and ateria l& venous system
21	06-08-21 to 04-09-21	2	Atrial & venous system and reproductive system of rat.
September -21	06-09-21 to 11-09-21	2	Reproductive system of rat
	13-09-21 to 22-09-21	2	Revision

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PRINCIPAL Smt. ASM College For Women, BALLARI.



F.No.FIP/11th Plan)/KAGU027 TF 02

विश्वविद्यालय अनुदान आयोग

नैरुत्य प्रादेशिक कार्यालय

UNIVERSITY GRANTS COMMISSION

SOUTH WESTERN REGIONAL OFFICE

P.K. Block, Palace Road, Gandhinagar Bangalore-560 009.

Phone: (080) 2228 0380 Fax: (080) 2228 0381

04-Dec-10 '

The Principal

TFCODE: KAGU027 TFO2

SMT. ALLUM SUMANGALAMMA MEMORIAL COLLEGE FOR WOMEN SMT. ALLUM SUMANGALAMMA ROAD, GANDHI NAGAR BELLARY - 583 103

"THIS TF CODE SHOULD BE QUOTED IN ALL CORRESPONDENCE WITHOUT FAIL"

Sub:- Award of Teacher Fellowship under Faculty Development Programme during XI th Plan period.

Sir.

Based on the recommendations of the Selection committee/ University, the Commission conveys its approval for the award of Teacher Fellowship to MR. K.S.RAMANAIK Dept of HISTORY, SMT. ALLUM SUMANGALAMMA MEMORIAL COLLEGE FOR WOMEN, SMT. ALLUM SUMANGALAMMA ROAD, GANDHI NAGAR, BELLARY under the XIth plan period as per the details given below.

Name of the Teacher Fellow	Programme	Subject	Duration
MR K.S.RAMANAIK	PHD	HISTORY	Two year
			3761757

- 1. The Research Center of the Teacher Fellow will be SCOTT CHRISTIAN COLLEGE, NAGERCOIL. After joining in the Research Center the Teacher Fellow should submit the joining report to this office as per the prescribed format (Annexure IV FIP XI guidelines).
- 2. A teacher fellow will be eligible for reimbursement of actual contingency expenditure subject to a maximum of Rs.15000/- per year. The contingency grant shall be released only on receipt of the Utilization Certificate in the prescribed proforma (Annexure V, FIP XI Plan guideline) may be submitted to the SWRO, UGC.
- 3. The supervisor/guide of the Teacher Fellow must give a progress report in the mid of the period for which the fellowship is awarded. In case of negative report given by the Supervisor/ Guide, the awarded fellowship to the Teacher Fellow may be withdrawn by the UGC.

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Head of the Department of Zoology Smt. A.S.M. College for Women, Ballari-583103.

PRINCIPAL Smt. ASM College For Women, BALLARI.

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	M.	Id. Yun	us Basha I Semester Cell biology			
Commer	cement of Cla	sses :17	7-08-2022 And End of I sem.17/12/2022 Classes 28 hrs			
Month	Week	Hour s	Syllabus to be covered			
August 2022	Classes delayed due To admissions to I semester					
Sep-	05/09/2022 to 14/09/2022 Classes not engaged due to Practical 4 and 6 Sem.					
2022	Classes suspended Due to Examination 16/09/2022 to 30/09/2022					
	Holidays 01/	10/2022	to 09/10/2022			
	10-10-2022 to 15-10-2022	2	Chapter 1. Structure and Function of Cell Organelles I in Animal cell Plasma me mbrane: chemical structure—lipids and proteins.			
October -22	17-10-2022 to 22-10-2022	2	Endomembrane system: protein targeting and sorting, transport, endocytosis and exocytosis			
	24-10-2022 to 29-10-2022	1	Chapter 2. Structure and Function of Cell Organelles II in Animal Cell Cytoskeleton: microtubules, microfilaments, intermediate filaments			
	31-10-2022 to 05-11-2022	1	Mitochondria: Structure, oxidative phosphorylation; electron transport system Peroxisome and Ribosome: structure and function			
22	07-11-2022 to 12-11-2022	2	Chapter 3. Nucleus and Chromatin Structure Structure and function of nucleus in eukaryotes Chemical structure and base composition of DNA and RNA			
November -22	14-11-2022 to 19-11-2022	2	DNA supercoiling, chromatin organization, structure of chromosomesTypes of DNA and RNA			
ž	21-11-2022 to 26-11-2022	2	Chapter 4 Cell cycle, Cell Division and Cell Signaling Cell division: mitosis and meiosi			
	28-11-2022 to 3-12-2022	2	Introduction to Cell cycle and its regulation, apoptosis			
r – 22	5-12-2022 to 10-12-2022	2	Signal transduction: intracellular 11 signaling and cell surface receptors, via G-proteinlinked receptors			
December – 22	12-12-2022 to 17-12-2022	2	Cell-cell interaction: cell adhesion molecules, cellular junctions			

Wead of the Department of Zoology 6mt. A.S.M. College for Women, Ballari-583103.

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College for Women, Ballari-583103

Smt. A.S.M. College for Women. BALLARI-583 103.



		V	Seme	ster Genetics Md. Yunus Basha 0-10-2022 and End of V sem. Classes 02/02/2022 24 hrs Chromosomes: Chromosome number, size
Comm	ence	ement of Clas	ses: 10	0-10-2022 and End of v sem. Size
Comm	10-	10-2022 to 10-2022	2	chromosomal morphology, and types,
~		10-2022 to	2	structure and models.
2- Jer -2		-10-2022 -10-2022 to -10-2022	1	Heterochromatin and euchromatin. Giant chromosomespolytene and lampbrush.
.0	31	-10-2022 to	1	Nucleic Acids, and Protein Biosynthesis: Identification of genetic material — Griffith's experiment.
*	07	7-11-2022 to 2-11-2022	2	of genetic material — Griffith's experiment. Chemistry of nucleic acids, structure of DNA, Watson and crick DNA model,
sr -22	1	4-11-2022 to	2	replication of DNA. Forms of DNA, Types of RNA.
November	2	9-11-2022 11-11-2022 to 26-11-2022	2	Genetic code, properties of genetic code, wobble hypothesis,
	2	28-11-2022 to 3-12-2022	2	mechanism of protein biosynthesis
	1	5-12-2022 to	2	Genetic Engineering and Biotechnology: Recombi
-		10-12-2022		DNA technology, (Isolation of Start, Palindrome Sequence,
	7	10-12-2022.	2	Palindrome Sequence, Cloning Vectors-Plasmids,
1 1 1		10-12-2022, 12-12-2022 to 17-12-2022 19-12-2022 to		DNA technology, (Isolation of Genety Palindrome Sequence, Cloning Vectors-Plasmids, Gene-Cloning); production on of insulin by rDNA
		10-12-2022, 12-12-2022 to 17-12-2022 19-12-2022 to 24-12-2022 26-12-2022 to	2	DNA technology, (Isolation of Gody, Palindrome Sequence, Cloning Vectors-Plasmids, Gene-Cloning); production on of insulin by rDNA technology PCR DNA finger printing and DNA vaccines
	December – 22	10-12-2022 to 17-12-2022 to 19-12-2022 to 24-12-2022 to 31-12-2022 to 31-12-2022 to 20-01-2023 to	2	DNA technology, (Isolation of Gody, Palindrome Sequence, Cloning Vectors-Plasmids, Gene-Cloning); production on of insulin by rDNA technology PCR DNA finger printing and DNA vaccines Applications of genetic engineering medicine, food technology and agriculture
		10-12-2022, 12-12-2022 to 17-12-2022 19-12-2022 to 24-12-2022 26-12-2022 to 31-12-2022 02-01-2023 to 07-01-2023 09-01-2023 to	2 2 2 2 2	DNA technology, (Isolation of Gody, Palindrome Sequence, Cloning Vectors-Plasmids, Gene-Cloning); production on of insulin by rDNA technology PCR DNA finger printing and DNA vaccines Applications of genetic engineering medicine, food technology and agriculture Useful effect of biotechnology
	December -	10-12-2022, 12-12-2022 to 17-12-2022 19-12-2022 to 24-12-2022 to 31-12-2022 to 31-12-2022 to 07-01-2023 to 07-01-2023 to 14-01-2023 to 14-01-2023 to	2 2 2 0 2	DNA technology, (Isolation of Gody, Palindrome Sequence, Cloning Vectors-Plasmids, Gene-Cloning); production on of insulin by rDNA technology PCR DNA finger printing and DNA vaccines Applications of genetic engineering medicine, food technology and agriculture Useful effect of biotechnology harmful effect of biotechnology
	December -	10-12-2022, 12-12-2022 to 17-12-2022 19-12-2022 to 24-12-2022 to 31-12-2022 to 31-12-2022 to 07-01-2023 to 07-01-2023 to 14-01-2023 to 14-01-2023 to 14-01-2023 to 21-01-2023 to	2 2 5 2 6 2 6 2 7 2	DNA technology, (Isolation of Gody, Palindrome Sequence, Cloning Vectors-Plasmids, Gene-Cloning); production on of insulin by rDNA technology PCR DNA finger printing and DNA vaccines Applications of genetic engineering medicine, food technology and agriculture Useful effect of biotechnology harmful effect of biotechnology Revision
		10-12-2022, 12-12-2022 to 17-12-2022 19-12-2022 to 24-12-2022 to 31-12-2022 to 31-12-2022 to 07-01-2023 to 07-01-2023 to 14-01-2023 to 14-01-2023 to 14-01-2023 to 14-01-2023 to	2 2 2 0 2 0 2 to to to	DNA technology, (Isolation of Gody, Palindrome Sequence, Cloning Vectors-Plasmids, Gene-Cloning); production on of insulin by rDNA technology PCR DNA finger printing and DNA vaccines Applications of genetic engineering medicine, food technology and agriculture Useful effect of biotechnology harmful effect of biotechnology

Head of the Department of Zoology Smt. A.S.M. College for Women, Ballari-583103.

Smt. Allum Sumangalamma Memorial College for Women, Ballari-\$83183

DATE OF REOPENING	:01-09-2020
B.Sc. I.II.V Semester	2020-21

Month	Week	Hours	Classes: 01-09-2020, V Semester Genetics: D. Satheesh AA Syllabus to be covered
Month	02-09-20 to 10 -09-20	6	Introduction: History of genetics, branches of genetics, heredity and variation. Practical applications of genetics. Genetics Terminology,
September 2020	14-09-20 to 19 -09-20	5	Chromosomes: Chromosome number, size chromosomal morphology, and types. Structure and models. Heterochromatin and euchromatin. Giant chromosomes polytene and lamp brush chromosomes.
	21-09-20 to 26 -09-20	6	Nucleic acids and protein biosynthesis: Introduction: Identification of genetic material – Griffith's experiment Chemistry of nucleic acids, structure of DNA. Watson and crick DNA model, replication of DNA. Forms of DNA.
Septe	28-09-20 to 30 -09-20	5	Types of RNA.Genetic code, properties of genetic code, wobble hypothesis, mechanism of protein biosynthesis.
	01-10-20 to 03-10-20	2	Interaction of genes: Supplementary factors -9: 3: 3: 1 Example: Comb pattern in fowls. Dominant epistasis-13: 3: plumage colour in Leghorn and yandotte.
	05-10-20 to 10-10-20	4	Dominant epistasis - 12:3:1 Coat colour in dogs Recessive epistasis 9: 3: 4 – Coat colour in mouse
October -20	12-10-20 to 17-10-20	5	Complementary factors - 9: 7, flower colour in sweet peas. Multiple factors / polygenic inheritance –Skin Colour in Man. Lethal gene - Coat colour in mice
Oct	19-10-20 to 24-10-20	6	Multiple Alleles: Characteristics of Multiple Alleles, Inheritance of coat colour in Rabbit and ABO blood groups in human, Rh-factor, Isoalleles, Pseudoalleles and position effect.
<u>u</u>	17-10-20 to 29-10-20	6	Linkage and Crossing over:Linkage:Theories of linkage, Linkage in Drosophila, linkage in man,
November-20	02-11-20 to 07-11-20	3	Crossing over: Mechanism of meiotic Crossing Over, Types of Crossing over, Cytological detection of crossing over (Stern's Experiment on Drosophila), Significance of Crossing over
	09-11-20 to 14-11-20	4	Sex determination : Chromosomal mechanism of sex determination, Genic balance theory, Gynandromorphy and intersexes
Nov	17-11-20 to 21-11-20	5	Sex linked inheritance: Sex linked inheritance in Drosophila. Haemophillia and colour blindness in man. Sex linkage in poultry, Y linked genes
	23-11-20 to 28-11-20	5	Mutations: Chromosomal aberrations- Human Diseases: Klinefelter's Syndrome, Turner's syndrome,

cem 20	01-12-20 to 05-12-20	3	Edwards Syndrome, Patau syndrome Chi- du – chart syndrome and Down's syndrome (Mongolism).,.
	07-12-20 to	4	Gene mutations - Types of gene mutation and Molecular

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PRINCIPAL Smt. ASM College For Women, BALLARI.

Smit. ASM College 55INCINT

CIVIL POLICE CONSTABLE EXAMINATION(Male and Female)

Date: 24/10/2021 (SUNDAY)
Name of centre: 22. Smt. A. S. M. College for Women, Ballari – 583 103

Invigilators Attendance date 24/10/2021

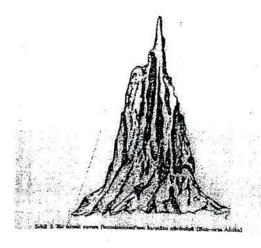
Sl.No.	Name	Designation	Room No	Signature
1.	Dr. S.Y. Thimmareddy	Principal		
2.	Ms. H.M.Suvarna Latha	Invigilator		Hon Swann lah
3.	Mr. Abeed Hussain	Invigilator		100 15000 0201
4.	Mr. S.G. Malipatil	Invigilator		Stotil
5.	Ms. Anjana	Invigilator		Kee
6.	Ms. Santhoshi kumari	Invigilator		Sahahi
7.	Ms. Chaitra H.S	Invigilator		H. Chailte
8.	Ms. Agila G	Invigilator		
9.	Dr. Beemanagouda Patil	Invigilator		
10.	Mr. M Margunath	Invigilator		V (RAPROVIEWAS)
11.	Ms. GOWA - M.	Invigilator		Ciousy M
12.	Ms. Varsha	Invigilator		Veislas
13.	Ms. Ruhinaz	Invigilator		Rohinal
14.	Ms. Anupama K	Invigilator		Aupib
15.	Ms. Poornima	Invigilator	EUCA I	
16.	Ms. Ashwini J	Invigilator		1
17.	Ms. Aishwarya lakshmi	Invigilator		K Aishwayalayethin
18.	Dr. D. Satheesh	Additional Invigilator	TV	K Aishwayalayuha
19.	Mr. U. Chandra sekhar	Assistant		Cenus -
20.	Mr. Vagan Sna	Assistant		58
21.	A Basavaraj	Attender		
22.	K Pampana gouda	Attender		
23.	Suresh	Attender		

			lail by the
	12-12-20		basis of gene mutations
	14-12-20 to 19-12-20	5	Gene mutations – Types of gene mutation and Molecular basis of gene mutations
	21-12-20 to 26-12-20	6	Human genetics and eugenics: Common human genetic disorders
	28-12-20 to 02-01-21	6	Inborn errors of metabolism: Albinism, Phenylketonuria, Alkaptoneuria,
¥	04-01-21 to 09-01-21	6	Sickle cell anemia. Thalassemia, Huntington's chorea, Eugenics.
January -21	11-01-21 to 16-01-21	5	Genetic engineering and biotechnology: Introduction. Recombinant DNA technology, (Isolation of Gene, Endonucleases, Palindrome Sequence,
	18-01-21 to 23-01-21	4	Cloning Vectors-Plasmids, Gene Cloning),
	25-01-21 to 30-01-21	3	Production of insulin by r DNA technology,.
	01-02-21 to 06-02-21	4	PCR and, DNA finger printing.DNA vaccines
February 21	08-02-21 to 13-02-21	5	Applications of genetic engineering in Medicine, food technology and agriculture. Useful and harmful effect of biotechnology
	15-02-21 to 20-02-21	3	Revision
ā)	22-02-21 to 27-02-21	3	Revision

Head of the Department of Zoology Smt. A.S.M. College for Women, Ballari-583103.

PRINCIPAL Smt. ASM College For Women, BALLARI.

Social organisation in Termites



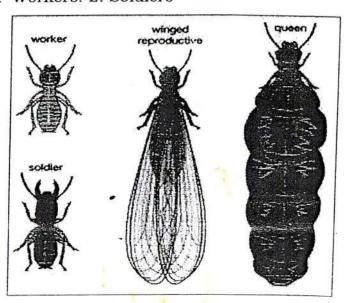
Termites are eusocial insects that are classified at the taxonomic rank of infraorder Isoptera, or as epifamily Termitoidae within the cockroach order Blattodea. They differ from other social insects in having a larger number of castes, of which 3 are reproductive caste and 2 are sterile caste.

The three reproductive or fertile castes of termites are as follows

- 1. Macropterous or winged forms.
- 2. Brachypterous or short winged forms.
- 3. Apterous or wingless forms.

The two non-reproductive or sterile castes of termites are as follows

1. Workers. 2. Soldiers



DATE OF REOPENING:05-05-2021

B.Sc. II, IV, VI Semester 2020-21

Commencement of Classes: 05-05-2021,

VI Semester : Ecology, Zoogeography and Wildlife biology D. Satheesh



Month	Week	Hours	Syllabus to be covered
	06-05-21 to 15 -05-21	6	Definition, History, Ecology – Subdivision of Ecology – Scope of Ecology. Light – effect of light on animals, Temperature – thermal stratification – effect of temperature on animals, Adaptations to extreme temperature.
21	17-05-21 to 22 -05-21	5	Mutualism, commensalism parasitism, ammensalism, predation and competition with relevant examples. Components and Functions of Ecosystem. Natural ecosystems and man engineered ecosystem. Laws of thermodynamics. Energy flow in ecosystem, types of food chains with examples, Food web, ecological pyramids.
May -21	24-05-21 to 31-05-21	6	Study of pond as Typical Ecosystem –Zonation, abiotic components and biotic components Community structure, Ecological stratification – Ecotone& Edge effect. Ecological Niches.
	01-06-21 to 05-06-21	2	Marine habitat: Physico-Chemical Feature, ecological zonation and classification of marine biota, Ecological adaptations to pelagic water and Deep Sea, Estuarine habitat: Physico-Chemical Features and Biota. Mangroves.
June-21	07-06-21 to 12-06-21	4	Fresh water habitat: Physico-Chemical Features of Lentic and lotic water bodies. Ecological adaptations of fresh water animals living in Lotic Water bodies
Jun	14-06-21 to 19-06-21	5	Terrestrial habitat – A brief account of biomes (Characteristics and fauna of Tundra, taiga, Grasslands, Savannas, chaparrals, Decidua's Forests and Deserts.). Faunal adaptations to Desert conditions
	21-06-21 to 30-06-21	6	Population density, Natality and Biotic potential – Allee's principle and Gause's principle Mortality, age distribution, population growth rate, population growth curves.
	01-07-21 to 03-07-21	5	Environment pollution: Definition, Pollutants and types of Pollution- Air Pollution, Water Pollution, Soil Pollution - Sources, effect and control
	05-07-21 to 10-07-21	4	Zoogeographical realms (with subdivision) of world, with climatic conditions and examples of characteristic fauna – brief account of Wallace's line
July -21	12-07-21 to 17-07-21	5	Continuous and discontinuous distributions with examples – Barriers of dispersal – topographic and vegetative barriers, large bodies of water as barriers climatic barriers.
	19-07-21 to 24-07-21	5	Wild life fauna in the Himalayan ranges, the peninsular Indian sub region, Deccan plateau, Western Ghats, Eastern hill chain, the Indian desert, tropical rain forests,
	26-07-21 to 31-07-21	6	Indian Board for Wildlife (IBWL), Wildlife Institute of India (WII), Central Zoo Authority of India (CZA), Bombay Natural History Society (BNHS), Project Tiger,
August -21	02-08-21 to 07-08-21	3	Wild life (protection) Act 1972. World Wide Fund for Nature (WWF), Convention of international trade in endangered species of wild life flora and fauna. CITES),
	09-08-21 to 14-08-21	4	Ramsar convention, Convention on Biological Diversity (CBD), Trade Record Analysis of Flora & Fauna in Commerce (TRAFFIC) IUCN- Red Data Book,
		The state	

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PRINCIPAL Smt. ASM College For Women, BALLARI.

R-20

District Code: 30

Session-1

Centre Code: 3

Polythene Sl.No.: 3359

Room No.: 7

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DATE OF REOPENING :17-11-2020 Commencement of Classes :17-12-2020, I semester

			Yunus Basha	
- a 141	Week	Но	Syllabus to be covered	
Month		urs	12	

	18-10-2021 to	4	Chapter 1. Structure and Function of Cell
	23-10-2021		Organelles I in Animal cell
	*		Chapter 2 Plasma membrane: chemical structure—
			lipids and proteins
er -21	25-10-2021 to 30-10-2021	4	Chapter 3 Endomembrane system: protein targeting and sorting, transport
October -21			Chapter 2. Structure and Function of Cell Organelles II in Animal Ce
10	01-11-2021 to 06-11-2021	2	Mitochondria: Structure, oxidative phosphorylation; electron transport syst Peroxisome and Ribosome: structure and function
	8-11-2021 to 13-11-2021	4	Chapter 3. Nucleus and Chromatin Structure Structure and function of nucleus in eukaryotes Chemical structure and bas composition of DNA and RNA
2-3	15-11-2021 to	4	DNA supercoiling, chromatin organization, structure of chromosomes
ıbeı	20-11-2021		Types of DNA and RNA
November -21			Chapter 4. Cell cycle, Cell Division and Cell Signaling Cell division: mitosis and meiosis Introduction to Cell cycle and its regula
	22-11-2021 to	4	Signal transduction: intracellular 11 signaling and cell surface receptors,
	27-11-2021		via G-proteinlinked receptors Cell-cell interaction; cell adhesion
			molecules, cellular junction
	29-11-2021 to 4-12-2021	4	Chapter 5. Mendelism and Sex Determination Basic principles of heredity: Mendel's laws- monohybrid cross and hybrid cross
December	6-12-2021 to 11-12-2021	4	Complete and Incomplete Dominance Penetrance and expressivity Genetic Sex-Determining Systems, Environmental Sex Determination, S Determination and mechanism in <i>Drosophilamelanogaster</i> .
_	13-12-2021 to	4	Sex-linked characteristics in humans and dosage compensation
	20-12-2021 to 25-12-2021	3	Chapter 6. Extensions of Mendelism, Genes and Environment Extensions of Mendelism: Multiple Alleles, Gene Interaction. The Interaction Between Sex and Heredity:
	27-12-2021 to	4	Sex-Influenced and Sex-LimitedCharacteristics Cytoplasmic
me Vac 6	01-01-2022		Inheritance, Genetic Maternal Effects. Interaction between Genes and Environment:
C-vriennel	03-01-2022 t 08-01-2022	to 4	Environmental Effects on Gene Expression, Inheritance of Continuous Characteristics.
-	10-01-2022 t 15-01-2022	to 3	Chapter 7. Human Chromosomes and Patterns of Inheritance Patterns of inheritance: autosomal dominance, autosomal recessive, X-linked recessive, X-linked dominant.
	17-01-2022 1 22-01-2022	to 4	Chromosomal anomalies: Structural and numerical aberrations with exa Human karyotyping and Pedigree analysis



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	24-01-2022 to 29-01-2022	3	Chapter 8. Infectious Diseases Introduction to pathogenic organisms: viruses, bacteria, fungi, protozoa ar worms.
	31-01-2022 to 05-02-2022	4	Structure, life cycle, pathogenicity, including diseases, causes, symptoms control of common parasites: <i>Trypanosoma</i> , <i>Giardia and Wuchereria</i> .
224	07-02-2022 to 12-02-2022	4	structure, life cycle, pathogenicity, including diseases, causes, symptoms control of common parasites: Giardia and Wuchereria.
February- 22	14-02-2022 to 19-02-2022	4	Structure, life cycle, pathogenicity, including diseases, causes, symptom control of common parasites: Wuchereria.
Febi	21-02-2022 to 26-02-2022	4	Revision
	28-02-2022	1	Revision

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DATE OF REOPENING:07-06-2021

Commencement of Classes: 07-06-2021, 2,4,6 semester 6.1 Yunus Basha .N Assistant Professor CELL BIOLOGY & DEVELOPMENTAL BIOLOGY

	CEL	L BIOL	OGY & DEVELOPMENTAL BIOLOGY
Month	Week	Hours	Syllabus to be covered
	06-05-21 to	3	History of cell biology and its branches. Cell Theory
	15 -05-21		
	17-05-21 to	4	Study of light and electron microscope, cell fractionation,
	22 -05-21		ultra structure of animal cell.
	24-05-21 to	3	Structure and functions of Plasma membrane, Mitochondria,
	31-05-21		
	01-06-21 to	4	Golgi complex, lysosomes, endoplasmic reticulum,
	05-06-21		Ribosomes, Nucleus., Centrioles, cytoskeletal elements
	07-06-21 to	5	Cell cycle: Mitosis and meiosis, regulations of cell cycle.
	12-06-21		
	14-06-21 to	3	Cell cycle: Mitosis and meiosis, regulations of cell cycle.
	19-06-21		
	21-06-21 to	3	Biology of cancer: Types of cancer,
	30-06-21		
	01-07-21 to	4	characteristics of cancer cell, carcinogenic agents (physical,
	03-07-21		chemical and biological)
	05-07-21 to	5	Introduction: Branches of Embryology, Scope of Embryology,
	10-07-21		Theories of development, pre formation and epigenetic theory.
	12-07-21 to	5	Spermatogenesis and oogenesis - comparison between
	17-07-21		spermatogenesis and oogenesis
	19-07-21 to	3	Kinds of fertilization,
	24-07-21	F - 100	
	26-07-21 to	3	approach of gametes, fertilization and antifertilization, acrosome
	31-07-21		reaction – cortical reaction
	02-08-21 to	4	Amphimixis, monospermic
	07-08-21		
	09-08-21 to	3	Polyspermic fertilization, significance of fertilization
	14-08-21		
	16-08-21 to	4	Types of cleavage - Holoblastic, meroblastic, radial and spiral types
	21-08-21		with examples
	23-08-21 to	6	Effect of yolk on cleavage
	28-08-21		
	30-08-21 to	3	Early development of frog:Structure of ovum, cleavage Early
	04-09-21		development of frog:blastulation and gastrulation.
	06-08-21 to	4	Early development of chick: Structure of hen's egg, cleavage
	04-09-21		
	06-09-21 to	3	blastulation, gastrulation origin and structure of primitive streak
	11-09-21		
	13-09-21 to	4	Early development of chick: structure of 2448 hours chick

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SMT. A.S.M. MEMORIAL COLLEGE FOR WOMEN, BELLARY.

TIME TABLE FOR THE YEAR 2009 - 2010 BOTANY.

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Head of the Department M. G. NADAGOU H.O.D. of BOTANY

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DATE OF REOPENING:17-11-2020 Commencement of Classes :17-12-2020, V semester Paper 5.2: Neha Naseeba S Week Ho Syllabus to be covered Month

Month	Week	Hours	Syllabus to be covered
	17-11-20 to 21-11-20	2	UNIT: I Definition and types of animal behavior Innate behavior: Kinesis, Taxes, Reflexes, Instincts and Motivation
NOV-20	23-11-20 to 28-11-20	2	Learned behavior: Habituation, Imprinting Conditioned reflex and Insight learning
Ž	01-12-20 to 05-12-20	1	Social organization in Honey bees
	07-12-20 to 12-12-20	2	Social organization in Termites & Macaques.
****	14-12-20 to 19-12-20	2	Unit II : 1.Migration in fishes – Types of migration, anatropous and catadromous migration with reference to Hilsa and Anguilla
	21-12-20 to 26-12-20	2	Migration in birds- Methods of studying migration, preparation for migration
Dec -20	28-12-20 to 31-12-20	2 ,	Types of Bird Migration, Orientation and Navigation.
Д	01-01-2021 to 02-01- 2021	2	2. Biological Clock :Introduction, Definition of chronobiology Biological clock, origin of biological clock various types of Rhythms.
52	04-01-2021 to 09-01- 2021	2	Unit III: Parental care in fishes. & amphibians
Jan -2021	11-01-2021 to 16-01- 2021	1	Nesting behavior in birds- types of nests.
Jan -	18-01-2021 to 20-01- 2021	2	Unit-IV Mimicry: definition, types of mimicry with examples. Coloration-types of coloration

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(Neha Nascebas

LESSON PLAN

BALLAPA 583403/

Commencement of Classes: 17-12-2020, I semester Biology of Non Chordates: Neha Nassel

Month Week Ho urs Syllabus to be covered

			uis	
nber	17-11-20 t 21-11-20	to	2	Phylum: Némathelminthes: General characters and classification up to classes with suitable examples Parasitic adaptaion in helminthes.
November	23-11-20 28-11-20	to	2	Unit -5. Phylum- Annelida: General characters and classification up to classes with suitable examples.
2 - 1	01-12-20 05-12-20	to	1	Unit:6. Phylum-Arthropoda: General characters of phylum
	07-12-20 12-12-20	to	2	classification up to classes with distinctive characters and suitable examples. Type Study of palaemon:- External
	14-12-20 19-12-20	to	2	Digestive System of prawn
December	21-12-20 26-12-20	to	2	Nervous system of prawn and Mouth parts of (cockroach & butterfly)
Dec	28-12-20 31-12-20	to	2	Unit:7. a. Phylum-Mollusca: General characters, classification up to classes with distinctive characters and suitable examples,
	01-01-2021 02-01-2021	to	2	Type study of unio- morphology. Digestive system of prawn
	04-01-2021 09-01-2021	to	2	Nervous system of prawn.
100 m	11-01-2021 16-01-2021	to	2	b.Phylum-Echinodermata: General characters of phylum,
January	18-01-2021 23-01-2021	to	2	classification up to classes with distinctive characters and suitable examples.
	25-01-2021 30-01-2021	to	2	Larval forms of Echinodermata.

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DATE OF REOPENING:17-11-2020 Commencement of Classes: 17-12-2020, I semester Biology of Non Chordates:

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Month	Week	Hours	Syllabus to be covered			
	17-11-20 to	01	Introduction to Non chordata:			
November 2020	21-11-20		Principles of animal Classification- Five Kingdom classification, concept of species Animal nomenclature (Binomial and Trinomial)			
Nove	23-11-20 to 28-11-20	02	Phylum-Protozoa: General characters			
	01-12-20 to 05-12-20	01	classification up to classes with suitable examples			
	07-12-20 to 12-12-20	02	Structure and life cycle of plasmodium vivax			
December 2020	14-12-20 to 19-12-20	02	Phylum - Porifera: General characters and			
ember	21-12-20 to 26-12-20	02	classification up to classes with suitable examples			
Dec	28-12-20 to 31-12-20	02	Histology and spicules. Canal system in sponges			
	01-01-2021 to 02-01-2021	02	Phylum-Coelenterata: General characters			
	04-01-2021 to 09-01-2021	01	Classification up to classes with suitable examples.			
a a a	11-01-2021 to 16-01-2021	01	Morphology and life Cycle of Hydra.			
1021	18-01-2021 to 23-01-2021	02	Phylum Platyhelminthes: General characters			
January 2021	25-01-2021 to 30-01-2021	02	classification up to classes with suitable examples			

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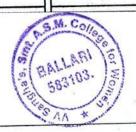
Smt. A.S.M. Cottege for Women Smt. ASM College For Won BALLARL

BALLARI-583 103.

TEACHING PLAN Class: 1 Semester.

Topic to be covered

Remarks



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Remarks

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Date of reopening:01-06-2019

Commencement	of Classes:13	3-06-2019,	Paper -3	Applied Zoolog	3y 32 ms
10 Total Control of the Control of t			The second second second second second	Converse the	

CONTRACTOR OF THE PARTY OF THE		Hours	Syllabus to be covered
Month	Week 12-06-19 to	1	Unit 1: Poultry: - Aim and scope of poultry,
	22-06-19 to	1	. This are
E C	24-06-19 to 29-06-19	2	Poultry form management, poultry breeds in India
	01-07-19 to 06-07-19	2	Rearing of broilers and layers. Nutritive value of Egg and poultry meat
11. / 190.: 201	8-07-19 to 13-07-19	2	Write a note on poultry diseases [Nutritional poultry disease poly neuritis, viral disease – Ranikhet,.
July-19	15-07-19 to 20-07-19	2	Bacterial disease – Fowl cholera, protozoan disease – coccidiasis] Symptoms, Remedy and control
	22-07-19 to 27-07-19	2	Unit 5.Dairy Farming:- Importance, Scope of dairy farm animals. Breeds of cattle- Breeds of Cow- Gir, Sindhi, Jersey Holstein Friesian.
			Breeds of Buffalo- Murrah, Surti, Nagpuri, Mehsana.
A	29-07-19 to 03-08-19	2	
	05-08-19 to 10-08-19	2	Composition of milk, milk products, curd, Ghee Butter, Milk powder.
st-19	13-08-19to 17-08-19	2	Breeding programme to improve local breeds of cattle.
August-19	19-08-19 to 24-08-19	2	Vermiculture: Vermiculture its concept and importance. Procedure of Vermiculture (Small scale large scale).
	26-08-19 to 31-09-19	2	Role of earthworm in soil fertility
(P)	03-09-19 to 07-09-19	2	Pearl culture: Microscopic structure of Shell. Pearl formation
ber-19	09-09-19 to 14-09-19	2	Women entrepreneurship in small Scale Industry
September-19	16-09-19 to 21-09-19	2	Unit 7. Histology- Histological study of following organs: Thyroid, liver,
S	23-09-19 to 27-09-19	2	Pancreas, stomach,
ober-19	30-10-19 to 05-10-19	2	Testis, Ovary
olber	09-10-19 to	2	Revision

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Professor the Department of Zooleys

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10-10-19

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Smt ASM COLLEGE FOR WOMEN, BALLARI.

TEACHING PLAN Class:

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Topic to be covered

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) (. d	Week	Hours	ast date of completion: 15/04/2020 Syllabus to be covered
Month	16/12/19 to - 21/12/19	Tiouis	OOD
December 2019	22-12-2019 to31-12-2019	1	Endocrine system: Functions of mammalian endocrin glands
0	1-12-19 to 11-01-20	1	pituitary
JANUARY-20	13-01-20 to 18-01-20	1	thyroid, parathyroid,
NUA	20-01-20 to 25-01-20	1	Pancreas, adrenals,
J/	27-01-20 to 02-02-20	1	testis, ovary,
	03-02-20 to 08-02-20	1	placenta
Y-20	10-02-20 to 15-02-20	1	Hormonal changes in Women.
UAR	17-02-20 to 22-02-20	1	Muscle contraction: Principle types of muscles.
FEBRUARY-20	24-02-20 to 29-02-20	1	Ultrastructure of striated musciles,
	02-03-20 to 07-03-20	1	contractile proteins – myosin, actin, tropomyosin, tropon and actinin.–
	09-03-20 to 14-03-20	1	Mechanism of muscle contraction and relaxation -the slidir filament theory
H-20	16-03-20 to 21-03-20	1	Nervous co-ordination: Structure of Neuron,
MARCH-20	23-03-20 to 28-03-20	1	Nature and conduction of nerve impulse
	30-03-20 to 04-04-20	1	synaptic transmission
APRIL-20	07-04-20 to 15-04-20	1	and Neuromuscular junction

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Principal Smt. Allum Sumangalanıma Memorial Coilege for Women, Ballari-583103

TEACHING PLAN Class:

1	F	Paper -6.	2 .Ecology , Zoogeography and Wild life
¥ 2	Date of	reopeni	ng and Commencement of Classes:21-12-20190 BALLARI
Walt	1		ast date of completion 15/04/2020
Month	Week	Hours	Syllabus to be covered
- Carrier Tolland	16-12-2019		OOD A Wall
	to31-12-2019 22-12-2019	4	Definition, History, Ecology spectrum – Subdivision of Ecology – Scope
	to31-12-2019	4	c partage I lobe effect of light on animals. I clipperature - meriman
Dec 2020	1031-12 2019		stratification – effect of temperature on animals, Adaptations to extreme
28	SALES PROPERTY.		tomperature
	1-12-20 to 11-	4	Mutualism, commensalism parasitism, ammensalism, predation and competition with relevant examples. Components and Functions of
	01-20		Description Natural ecosystems and man engineered ecosystem. Laws of
			thermodynamics. Energy flow in ecosystem, types of food chains with
	198		and the Food web ecological pyramids.
	13-01-20 to	4	Study of pand as Typical Ecosystem -Zonation, abiotic components and
	18-01-20		hiotic components Community structure, Ecological stratification
	10-01-20		Factors & Edge effect Ecological Niches.
20	20-01-20 to	4	Marine habitat: Physico-Chemical Feature, ecological zonation and classification of marine biota, Ecological adaptations to pelagic water
-20	25-01-20		and Deep Sea, Estuarine habitat: Physico-Chemical Features and Biota
≿ .	727		Managayas
JANUARY-20	27.01.20 to	4	Fresh water habitat: Physico-Chemical Features of Lentic and louis
Z	27-01-20 to	4	water bodies. Ecological adaptations of fresh water animals living in
JA	02-02-20		Latia Water hodies
	03-02-20 to	4	Terrestrial habitat – A brief account of biomes (Characteristics and
	08-02-20		fauna of Tundra, taiga, Grasslands, Savannas, chaparrals, Decidua'
			Forests and Deserts.). Faunal adaptations to Desert conditions Population density, Natality and Biotic potential – Allee's principle and
	10-02-20 to	4	Population density, Natality and Blotic potential — Affect of principle Gause's principle Mortality, age distribution,
	15-02-20	l.	population growth rate, population growth curves.
	17-02-20 to	4	Environment pollution:
20	22-02-20		Definition Pollutants and types of Pollution- Air Pollution,
>	24-02-20 to	4	Water Pollution, Soil Pollution – Sources, effect and control
EBRUARY-20	29-02-20	7	1 33 4 75.1
₩.	02-03-20 to	4	Zoogeographical realms (with subdivision) of world, with climat
3BI	07-03-20		conditions and examples of characteristic fauna - oriel account
E	07-05-20		W-llegg's line
-	09-03-20 to	4	Continuous and discontinuous distributions with examples – Barriers dispersal – topographic and vegetative barriers, large bodies of water
	14-03-20		dispersal – topographic and vegetative barriers, large bodies of white barriers climatic barriers.
	1.700.00	-	
20	16-03-20 to	4 %	region Deccan plateau.
MARCH-20	21-03-20	1	Western Ghats, Eastern hill chain, the Indian desert, tropical rain fores
- B	23-03-20 to	4 2	wild life in Andaman and Nicobar Islands.
MA.	28-03-20	4 4	
=	30-03-20 to	4	Definition, Wild life problems -Hunting, over harvesting, habitat lo
	04-04-20	100	Pollution and Climate change. Importance of Wild Life Conservation a management. Ex-situ Conservation and In Situ Conservation India
8	AMERICAN PROPERTY		Daniel for Wildlife (IRWI) Wildlife Institute of India (WII), Central 2
			Authority of India (CZA), Bombay Natural History Society (BNH
			Decidet Tiger
	07-04-20 to	4	Wild life (protection) Act 2072. World Wide Fund for Nature
	15-04-20	4	(WWF), Convention of international trade in endangered species of wild
02	13-04-20		Life flore and fauna CITES)
APRIL-20			(Ramsar convention, Convention on Biological Diversity (CBD), Trade
N.			Record Analysis of Flora & Fauna in Commerce (TRAFFIC) IUCN-R
AF			Data Book,

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TEACHING PLAN Class:

	and the same of th	and and	10 583 NO. 16
	and the contract of	D.	ATE OF REOPENING: 01-06-2019
	Commencem	ent of C	Classes: 12-06-2019, V semester Genetics: D. Satheesh
Month	Week	Hours	Callobuc to be covered
-10	12-06-19 to 22-06-19 Valuation duty 6 days	2	Introduction: History of genetics, branches of genetics, heredity and variation. Practical applications of genetics. Genetics Terminology,
JUNE-19	24-06-19 to 29-06-19	4	Chromosomes: Chromosome number, size chromosomal morphology, and types. Structure and models. Heterochromatin and euchromatin. Giant chromosomes polytene and lamp brush chromosomes.
	01-07-19 to 06-07-19	4	Nucleic acids and protein biosynthesis: Introduction: Identification of genetic material – Griffith's experiment Chemistry of nucleic acids, structure of DNA. Watson and crick DNA model, replication of DNA. Forms of DNA.
	8-07-19 to 13-07-19	4	Types of RNA.Genetic code, properties of genetic code, wobble hypothesis, mechanism of protein biosynthesis.
July-19	15-07-19 to 20-07-19	4	Interaction of genes: Supplementary factors -9: 3: 3: 1 Example: Comb pattern in fowls. Dominant epistasis-13: 3: plumage colour in Leghorn and yandotte. Dominant epistasis - 12:3:1 Coat colour in dogs Recessive epistasis 9: 3: 4 -
	22-07-19 to	4	Complementary factors - 9:7, flower colour in sweet peas,
	27-07-19	6	Multiple factors / polygenic inheritance –Skin Colour in Man. Lethal gene - Coat colour in mice.
	29-07-19 to 03-08-19	4	Multiple Alleles: Characteristics of Multiple Alleles, Inheritance of coat colour in Rabbit and ABO blood groups in human, Rh-factor, Isoalleles, Pseudoalleles and position effect
	05-08-19 to	3	Linkage and Crossing over: Linkage: Theories of linkage,
August-19	13-08-19 13-08-19to 17-08-19	3	Crossing over: Mechanism of meiotic Crossing Over, Types of Crossing over, Cytological detection of crossing over (Stern's Experiment on Drosophila), Significance of Crossing over
Aug	19-08-19 to 24-08-19	4	Sex determination: Chromosomal mechanism of sex determination, Genic balance theory, Gynandromorphy and intersexes Sex linked inheritance: Sex linked inheritance in Drosophila. Haemophillia and colour blindness in man. Sex linkage in poultry, Y linked genes
	26-08-19 to 31-09-19	0 4	Mutations: Chromosomal aberrations- Human Diseases: Klinefelter's Syndrome, Turner's syndrome, Edwards Syndrome, Patau syndrome Chi- du – chart syndrome and Down's syndrome (Mongolism)

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			(E) 2031 /3/
			f cone mutation and Molecular
	03-09-19 to	3	Gene mutations – Types of gene mutation and Molecular basis of gene mutations
	07-09-19		basis of gene metatro
	09-09-19 to	4	Human genetics and eugenics: Common human genetic disorders Inborn errors of metabolism: Albinism, Alkantoneuria, Sickle cell anemia.
61	14-09-19		disorders Inborn errors of metabolism. Phenylketonuria, Alkaptoneuria, Sickle cell anemia. Phenylketonuria, Alkaptoneuria, Eugenics.
ber-			Thalassemia, Huntington's chees,
September-19	16-09-19 to	4	Thalassemia, Huntington's Grand State of Genetic engineering and biotechnology: Introduction. Recombinant DNA technology, (Isolation of Gene, Endonucleases, Palindrome Sequence, Cloning Gene, Endonucleases, Palindrome Sequence, Cloning),
Set	21-09-19		Gene, Endonucleases, Palindrome Sequence, Cloning
			Vectors-Plasmids, Gene Cloning), Production of insulin by r DNA technology, PCR and DNA,
	23-09-19 to	3	finger printing. DNA vaccines.
1	27-09-19 30-09-19 to	4	Applications of genetic engineering in Medicine, food technology and agriculture. Useful and harmful effect of
October-	10-10-19		technology and agriculture. Oscilar and biotechnology
Oct			blotechnology
			Carrier Section 1991
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	Date o	f reoper	ning and Commencement of Classes16-12-2019 Last date of completion: 15/04/2020
Month	Week	Hours	Syllabus to be covered
December 2019	16/12/19 to - 27/12/19		OOD
	22-12-2019 to31-12-2019	2	Introduction: Branches of Embryology, Scope of Embryology, Theories of development, pre formation and epigenetic theory.
9	1-12-19 to 11-01-20	3	Spermatogenesis and oogenesis – comparison between spermatogenesis and oogenesis
Y-20	13-01-20 to 18-01-20	3	Kinds of fertilization, approach of gametes, fertilization and antifertilization
JANUARY-20	20-01-20 to 25-01-20	3	acrosome reaction – cortical reaction, Amphimixis, monospermic polyspermic fertilization, significance of fertilization
•	27-01-20 to 02-02-20	3	Types of cleavage – Holoblastic, meroblastic, radial and spiral types with examples Effect of yolk on cleavage
	03-02-20 to 08-02-20	3	Early development of frog: Structure of ovum, cleavage blastulation and gastrulation.
7-20	10-02-20 to 15-02-20	3	Early development of chick: Structure of hen's egg, cleavage blastulation,
FEBRUARY-20	17-02-20 to 22-02-20	3	gastrulation, origin and structure of primitive streak
FEBR	24-02-20 to 29-02-20	3	Early development of chick: structure of 24
	02-03-20 to 07-03-20	3	48 hours chick embryos. Extra embryonic membranes.
	09-03-20 to 14-03-20	3	Structure of sperm and ovum, ovulation, cleavage morula, blastocyst and implantation.
Н-20	16-03-20 to 21-03-20	3	Placenta: Morphological and histological classifications of placenta with examples
MARC	23-03-20 to 28-03-20	3	Placenta:structure and functions of placenta – yolk sac placenta, allantoic placenta.
,-20	30-03-20 to 04-04-20	3	Modern trends in human reproduction: Sperm bank, IVF, cloning, surrogate mother
APRIL-20 MARCH-20	07-04-20 to 15-04-20	3	multiple births – twins. Revision

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10	Date of	reopen	ast date of completion: 15/04/2020
	Week	Hours	Syllabus to be covered
Month	16/12/19 to -		OOD
December 2019	27/12/19 22-12-2019 to31-12-2019	2	Introduction:- Branches of Physiology, Scope of physiology
	1-12-19 to	2	Digestion: - Mechanical digestion and chemical digestion
(-20	11-01-20 13-01-20 to	2	Digestion of proteins, carbohydrates and lipids.
KR.	18-01-20 20-01-20 to	2	Digestion of carbohydrates and lipids.
JANUARY-20	20-01-20 to 25-01-20	2	Respiration:- External and internal respiration and
	27-01-20 to 02-02-20	2	
	03-02-20 to 08-02-20	2	- Respiratory pigments Hemoglobin,
02	10-02-20 to	2	Haemocyanin, haemoerythrin.
RY-2	15-02-20 17-02-20 to	2	Transport of O2 and CO2
FEBRUARY-20	22-02-20 24-02-20 to 29-02-20	2	Circulation:- Type of circulation-neurogenic and myogenic hearts.
丑	02-03-20 to	2	structure, functions and regulation of human heart,
	07-03-20 09-03-20 to	2	bloodpressure, composition of human blood, 08
07	14-03-20 16-03-20 to	2	Nitrogen excretion:- Nitrogen excretion in aquatic an terrestrial animals-
MARCH-20	21-03-20 23-03-20 to	0 2	Ammonotelism and ureotelism and unoconst
	28-03-20 30-03-20 t	0 2	example. Physiology of urine formation.
APRIL-20	04-04-20 07-04-20 to 15-04-20		Ornithine cycle.

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Date of Reopening 16-12-2019 Commencement of Classes VI semester :16-12-2019 B.Sc. VI Semester paper 6.1

	Week Hours Syllabus to be covered								
Month	WCCK	Hours	Syllabus to be covered						
qu	16-12-18 to 21-12-18	01	History of cell biology and its branches.						
Decemb er 19		01	Cell Theory						
		01	Study of light microscope						
		01	Study of electron microscope						
Jan 20		01	cell fractionation						
	20-01-20 to 25-01-20	01	ultra structure of animal cell						
90	27-01-20 to 31-01-20	01	Cell organelles Structure and functions of Plasma membrane						
	3-02-20 to 8-02-20	01	Mitochondria,						
	10-02-20 to 15-02-20	01	Golgi complex						
71	17-02-20 to 22-02-20	01	Lysosomes						
	24-02-20 to 29-02-20	01	Endoplasmic reticulum						
	02-03-20 to 07-03-20	01	Ribosomes,						
ar 20	09-03-20 to 14-03-20	01	Nucleus.						
27 -19	16-03-20 to 21-03-20		Centrioles, cytoskeletal elements						
**	23-03-20 to 28-03-20		Cell cycle: Mitosis& meiosis,						
	30-03-20 to 04-04-20	-7	meiosis and regulations of cell cycle Biology of cancer: Types of cancer,& characteristics of can						
- : ml 20	06-04-20 to 11-04-20	01	3721112330 2314						
	13-0420 to	01	carcinogenic agents (physical, chemical and biological)						

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Date of Reopening 16-12-2019 Commencement of Classes IV semester :16-12-2019 B.Sc. IV Semester paper 4.1

OG

: 2 :	Week	No of Hrs	Syllabus to be covered
	16-12-18 to 21-12-18	01	Enzymes -Introduction
December 19	23-12-18 to 28-12-19	01	Classification of enzymes (IUB system),
Dec	30-12-19 to 4-01-20	01	Mechanism of enzyme catalyzed
	6-01-20 to 11-01-20	01	Action lock and key method,.
. an 20	13-01-20 to 18-01-20	01	Induced fit hypothesis
	20-01-20 to 25-01-20	01	Specificity of enzymes
	27-01-20 to 31-01-20	01	Reversibility of enzyme action
Feb 20	3-02-20 to 8-02-20	01	Enzyme inhibitors
- '."	10-02-20 to 15-02-20	01	Cofactors
	17-02-20 to 22-02-20	01	Vitamins: Fat soluble Vitamins (A and D) functions and deficiency symptoms.
07	24-02-20 to 29-02-20	01	Fat soluble Vitamins (E and K) functions and deficiency symptoms.
Mar 20	02-03-20 to 07-03-20	01	Water soluble Vitamins (B complex) functions and deficiency symptoms.
	09-03-20 to 14-03-20	01	Water soluble vitamins (vitamin C) functions and deficiency symptoms.
	16-03-20 to 21-03-20	01	Revision
April - 20	23-03-20 to 28-03-20	01	Revision
	30-03-20 to 04-04-20	01	Revision
	06-04-20 to 11-04-20	01	Revision
	13-0420 to 18-04-20	01	Revision

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Month	Week	Hours	Syllabus to be covered
	Date of reopeni	ing :01	-06-2018
	Commencemen	nt of Cla	asses:11-06-2018
81	12-06-19 to	02	Apiculture: Honey bee morphology, mouth parts, honey sac,
	22-06-19		wax glands, types of different species and races
JUNE-18	24-06-19 to	02	Management of bee keeping (modern method) Economic
5	29-07-19		important of honey, wax, pollen, venom and bee
T .	1 000 East		pollination
	01-07-19 to	02	A note on production on honey, its chemical composition
	06-07-19		and honey bee diseases.
	8-07-19 to	02	Brief history and concept of sericulture:
	13-07-19		Moriculture, different types of mulberry (Morus alba, Morus
18	15 01 17		codifelia, Morus indica, Morus nigra).
July-18	15-07-19 to	02	Grainage – grainage activities
Ju	20-07-19	02	Silk worm rearing
	20-07-19		Slik world rearing
	22-07-19 to	02	2. Postharvest technology
	27-07-19	02	2. Tostilar vest teelihology
	5-07-19 to	02	Life cycle of Bombyx mori, environmental condition needed
	10-08-19	02	for rearing,
	13-08-19 to	02	modern method of rearing house,
00	17-08-19	02	modern method of rearing nease,
<u> </u>	19-08-19 to	02	rearing equipments chawki, worm and adult worm rearing
August-18	24-08-19	02	methods.
√ng	26-08-19 to	02	Non mulberry silk worm (ex. Muga and Tasar)
	31-08-19	02	Note indibotily sink worm (one integer
	3-09-19 to	02	Silk worm pests and predators
	7-09-19	0.2	
`	9-09-19 to	02	A note on silk worm diseases.) Bacterial diseases (Digestive
	14-09-19		track) Muscardine (white or green)
∞	16-09-19 to	02	muscardine protozoan diseases (Pebrine), and viral disease
er-18	21-09-19	1 . 1884.00	(Grasseria),
Jpe	21.07.17		(Grasseria).
Septemb	23-09-19 to	02	Aquaculture: Principle, scope, techniques
Sep	27-09-19	-	960 St 1X 95
0,	30-09-19 to	02	Importance of culturing economically important aquatic
	10-10-19		animals.
	01-10-18 to	02	. Brief account of Indian major carps and fresh water prawn
	06-10-18		Induced breeding of major carps and seed fish
11833	08-10-18 to	02	Endocrine regulation of fish reproduction. A note on fish by
~	13-10-18		products and fish diseases
October-18		-	
pe	15-10-18 to	02	Revision
cto	20-10-18		(1)
0	22-10-18 to	02	Revision
ES TES	27-10-18		1209
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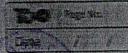
Comme	ncement of Cl	asses:1	ATE OF REOPENING: 01-06-2019 2-06-2019, V semester Ethology and Evolution HS Chartanya Syllabus to be covered
Month	Week	Hours	Introduction to evolution: Lamarckism and neo-
Wednier.	12-06-19 to	4	Introduction to evolution: Theories of organic evolution: Lamarckism and heo-
6	22-06-19		Theories of organic of notural selection
当	8		Lamarckism. Darwin- Wallace theory of natural servers. Synthetic theory of evolution. Gene mutation, gene flow, genetic
JUNE-19	24-06-19 to	4 ,	Synthetic theory of evolution
7	29-06-19		drift, isolation, Natural selection and Hardy- Weinberg equilibrium. Speciation: Natural selection and Hardy- Weinberg equilibrium. Speciation:
	01-07-19 to	4	Natural selection and Hardy- Wellberg equilibrium concepts of species, Sympatric and allopatric speciation concepts of species, Sympatric and allopatric speciation, Fossils and Fossilization,
	06-07-19		
	8-07-19 to	4	Types of Fossils, Significance of fossils
July-19	13-07-19		. Origin and evolution of man.
uly	15-07-19 to	4	
	20-07-19		Definition and types of animal behavior:
	22-07-19 to	0 4	Definition and types of animal behavior: Innate behavior: Kinesis, Taxes, Reflexes, Instincts and Motivation, Innate behavior: Kinesis, Instincts and Motivation, Innate behavior: Kinesis, Instincts and Instinc
	27-07-19		Innate behavior: Kinesis, Taxes, Reflexes, Historica Conditioned reflex Learned behavior: Habituation, Imprinting, Conditioned reflex
	29-07-19 to	4	and Insight learning.
	03-08-19		and Insight learning. Social organization: Social organization in Honey bees, Termites
	05-08-19 t	0 4	and Macaques
	10-08-19		tion in tiches - IVUES ULTIME
	13-08-19to	2	Migratory behavior: Migration in fishes 19900 anadromous and catadromous migration with reference to Hilsa
9-	17-08-19		
August-19	10.47	7.5	and Anguilla. Migration in birds- Methods of studying migration, Types of Bird Migration,
=	19-08-19 t	0 4	Migration in birds- Methods of Standard Migration, preparation for migration, Types of Bird Migration,
<	24-08-19	-	Orientation and Navigation. Orientation and Navigation. Definition of chronobiology
	26-08-19	to 4	Biological Clock :Introduction, Definition of Biological clock, origin of biological clock, various types of
	31-09-19		Biological clock, origin of the
			Rhythms. Courtship Behavior: Definition, General principles courtship
-	03-09-19		·d monocock
	07-09-19		in scorpions and peacock Parental care in fishes. Parental care amphibians
	09-09-19	to 4	Parental care in fishes. I arental care
	14-09-19		Nesting behavior in Birds:
	16-09-19		Nesting behavior in Birds - Types of Nests.
	21-09-19)	Nesting beliavior in Birds -71
0 1	Ξ		70.
	23-09-1	S. 115-50.	Mimicry: Definition, types of mimicry, protective, aggressive and
	23-09-1 27-09-1	9	warning mimicry with suitable examples.
	Ĭ	1	warning milliory with surtains and
	The state of the s		
	30-09-1		coloration – types of coloration
	10-10-	19	coloration – types of coloration
		- 1	1

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Date

DATE OF REOPENING: 16-12-2019
Commencement of Classes II sem:16-12-2019, II Sem paper: Biology of Chordates
-Chaitanya.H S

Month	Week	Hours	Syllabus to be covered
	16-12-18 to 21-12-18	2	Chordate-Introduction, General characters of chordate
December 19	23-12-18 to 28-12-19	2	Outline Classification of the Phylum Chordata up to classes with examples
- W 22	30-12-19 to 4-01-20	2	GC of Sub Phylum Urochordata, Cephalochordata
	6-01-20 to	2	GC of vertebrata and class Cyclostomata (GC)
Jan 20	13-01-20 to 18-01-20	2	Cyclostomta with examples- General organization of Petromyzon.
	20-01-20 to 25-01-20	2	General organization of Petromyzon. Introduction to Aves.
	27-01-20 to 31-01-20	2	GC of Aves and classification.
	3-02-20 to 8-02-20	2	Classification of aves with examples upto orders.
	10-02-20 to 15-02-20	2	Flight adaptation of birds.
Feb 20	17-02-20 to 22-02-20	2	Economic importance of birds. Introduction to Mammals.
	24-02-20 to 29-02-20	2	GC of Mammals and classification upto sub classe with suitable examples.
	02-03-20 to 07-03-20	2	Classification of Mammals. Study of Rat- Morphology
Mar	09-03-20 to	2	Digestive system of Rat.
20	16-03-20 to 21-03-20	2	Study of Arterial & Venous system.
	23-03-20 to 28-03-20	2	Reproductive system of Rat in female.
	30-03-20 to 04-04-20	2	Reproductive system of Rat in male.
April 20	06-04-20 to	2	Revision
	13-0420 to	0 1	Revision

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Page No.

DATE OF REOPENING: 16-12-2019

Commencement of Classes II semester :16-12-2019, II Sem paper: Biology of Chordates and Osteology.

- Neha Naseeba.S

and Osteology.			у	- Neha Naseeba.S
Month	Week		Hours -	Syllabus to be covered
_	at South	to	2	Chordate-introduction,
pe	21-12-18			Pisces: General characters
December 19	23-12-18 28-12-19	to	1	classification of Osteichthyes with suitable examples
	30-12-19 4-01-20	to	2	Classification of Chondrichthyes with suitable examples
	6-01-20 11-01-20	to	2	Types of scales and Fins in fishes.
Jan 20	13-01-20 18-01-20	to	1	Amphibia: General characters
	20-01-20 25-01-20	to	2	Classification up to [living only] orders with suitable examples.
	27-01-20 31-01-20	to	2	Ecology and distribution of Hyla, Bufo,
	3-02-20 8-02-20	to	2	Ecology and distribution of Salamander, Icthyophis
Feb	10-02-20 15-02-20	to	2	Reptilia: General characters and classification
20	17-02-20 22-02-20	to	2	Classification up to orders [living orders only] with suitable examples.
	24-02-20 29-02-20	to	2	Key identification of poisonous and non- poisonous snakes in India
	02-03-20 07-03-20	to	2	Poisonous [Cobra, Hydrophis]
Mar	09-03-20 14-03-20	to	2	Non Poisonous [Python, Typhlop] snakes of India
20	16-03-20 21-03-20	to	2	Osteology: Frog -Axial skeleton
	23-03-20 28-03-20	to	2	Frog - Appendicular skeleton
April	30-03-20 04-04-20	to	2	Osteology: Rabbit - Axial skeleton
20	06-04-20 11-04-20	to	2	Rabbit - Appendicular skeleton
	13-0420 18-04-20	to	1	Revision

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Neha Naseeba S

SEMESTER - I

THEORY Syllabus for paper Z.1

BIOLOGY OF NON-CHORDATA

56 hrs

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Unit -1. a. Introduction to Non chordata:

Principles of animal Classification- Five Kingdom classification, concept of species Animal nomenclature (Binomial and Trinomial)

b. Phylum-protozoa:

General characters of phylum and classification up to classes with distinctive characters and suitable examples. Structure and life history of plasmodium vivax.08Hrs

Phylum-Porifera: Unit:2.

General characters of phylum and classification up to classes with distinctive characters and suitable examples. Histology of Sponges, 08 Hrs canal system is sponges.

Unit :3. Phylum-Coelenterata:

General characters of phylum and classification up to classes with distinctive characters and suitable examples, Morphology and life 08 Hrs cycle of Hydra.

Unit: 4. a. Phylum-platyhelminthes:

General characters of phylum and classification up to classes with distinctive characters and suitable examples.

b. Phylum-Nematoda:

General characters with suitable examples, parasitic adaptations of Helminthes 08Hrs

Unit :5. Phylum-Annelida:

General characters of phylum and classification up to classes with distinctive characters and suitable examples.

Type Study Earthworm [External, Digestive and Nervous] 8 Hrs

Unit: 6. Phylum-Arthropoda:

General characters of phylum and classification up to classes with distinctive characters and suitable examples. Mouth parts of (cockroach & butterfly) Type Study of palaemon:- External digestive 08 Hrs and Nervous system

Unit:7. a. Phylum-Mollusca:

General characters of phylum and classification up to classes with distinctive characters and suitable examples, Type study of uniomorphology digestive and nervous system.

b. Phylum-Echinodermata:

General characters of phylum and classification up to classes with distinctive characters and suitable examples. Larval forms of 08 Hrs

Echinodermata.

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Month	Week	Hours	0-06-2019, I semester Biology of Non Chordates: Neha Naseeba Syllabus to be covered
JUNE-19	20-06-19 to 29-06-19	5	Introduction to Non chordata: Principles of animal Classification- Five Kingdom classification, concept of species Animal nomenclature (Binomial and Trinomial)
July-19	01-07-19 to 06-07-19	4	Phylum-Protozoa: General characters and classification up to classes with suitable examples
	8-07-19 to 13-07-19	4	Phulum - Porifera: General characters and classification up to classes with suitable examples
	15-07-19 to 20-07-19	4	Histology and spicules. Canal system in sponges
	22-07-19 to 27-07-19	4	Phylum-Coelenterata: General characters Classification up to classes with suitable examples.
August-19	29-07-19 to 03-08-19	4	Formation and types of Coral reefs Structure and life Cycle of Hydra
	05-08-19 to 10-08-19	4	Phylum Platyhelminthes: General characters and classification up to classes with suitable examples
	13-08-19to 17-08-19	2	Parasitic adaptations of Heliminthes.
	19-08-19 to 24-08-19	4	Phylum: Nemathelminthes: : General characters and classification up to classes with suitable examples
	26-08-19 to 31-09-19	4	Phylum- Annelida: General characters and classification up to classes with suitable examples.
September-19	03-09-19 to 07-09-19	3	Pheretima posthuma: Externals Digestive Nervous system
	09-09-19 to 14-09-19	4	Unit: 6. <u>Phylum-Arthropoda</u> : General characters of phylum classification up to classes with distinctive characters and suitable examples.
	16-09-19 to 21-09-19	4	Type Study of palaemon:- External, digestive System and Nervous system,)
	23-09-19 to 27-09-19	3	Mouth parts of (cockroach & butterfly Unit:7. a. Phylum-Mollusca: General characters, classification up to classes with distinctive characters and suitable examples,
October-19	30-09-19 to 05-10-19	4	Type study of unio- morphology, digestive and nervous system
	09-10-2019 to12-10-2019	4	b. Phylum-Echinodermata: General characters of phylum, classification up to classes with distinctive characters and suitable examples.
	14-10-2019 to19-10-2019	4	Larval forms of Echinodermata.

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Date of Reopening 21-12-2018 Commencement of Classes VI semester :21-12-2018 B.Sc. VI Semester paper 6.1

			B.Sc. VI Semester paper 6.1
Month	Week	Hours	Syllabus to be covered
Decemb er 18	21-12-18 to	2	History of cell biology and its branches. Cell Theory
	29-12-18		
	31-12-18 to	2	Study of light and electron microscope
	05-01-19		
Jan 19	7-01-19 to	2	cell fractionation, ultra structure of animal cell.
	12-01-19		
	15-01-19 to	2	Cell organelles Structure and functions of Plasma membrane
	19-01-19		
	21-01-19 to	2	Mitochondria, Golgi complex
	25-01-19		
	28-01-19 to	2	Lysosomes, endoplasmic reticulum
	02-02-19		
	04-02-19 to	2	Ribosomes, Nucleus
	09-02-19		
	11-02-19 to	2	Centrioles, cytoskeletal elements
Feb 19	16-02-19		
Feb 19	18-02-19 to	2	Cell cycle: Mitosis & meiosis
	23-02-19		
	25-02-19 to	2	meiosis and regulations of cell cycle
	02-03-19		
	05-03-19 to	2	Biology of cancer: Types of cancer, & characteristics of cancer cell,
	09-03-19		
	11-03-19 to	2	carcinogenic agents (physical, chemical and biological)&
Mar 19	16-03-19		Reproductive system and Early development of human: Menstrual
			cycle and its regulation
	18-03-19 to	2	Structure of sperm and ovum, ovulation, cleavage
	23-03-19		
	25-03-19 to	2	morula, blastocyst and implantation. Placenta introduction
	30-03-19	47.77	
April 19	01-04-19 to	2	Placenta: Morphological and histological classifications of placenta
	05-04-19	5	with examples
	08-04-19 to	2	Placenta: structure and functions of placenta – yolk sac placenta,
	13-04-19		allantoic placenta.
	15-04-19 to	2	Modern trends in human reproduction: Sperm bank, IVF, cloning,
	20-04-19	1	surrogate mother
	21-04-19 to) 2	Multiple births – twins. Revision
	22-04-19	7 2	Multiple offilis – twiffs. Revision
	22-04-19		

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4. Miss. Chaitanya HS Guest Lecturer in Zoology

N Me M	Wiiss. Citarta		
		D	ate of Reopening 21-12-2018
	Com	mencer	ment of Classes II semester :21-12-2018
		Hanna	B.Sc. II Semester paper 2.1
Month	Week	Hours	Syllabus to be covered
_	21-12-18 to	2	Introduction
pe	29-12-18		General characters of chordata
December 18	31-12-18 to	2	Outline classification of the Phylum Chordata up to
	05-01-19		classes with examples
	7-01-19 to	2	GC of sub phylum urochordata, cephalochordata
	12-01-19		The second secon
	15-01-19 to	2	GC of vertebrata and class Cyclostomata with
	19-01-19		examples-
Jan 19	21-01-19 to	2	General organization of Petromyzon.
	25-01-19		
	28-01-19 to	2	Introduction to aves GC of Aves
	02-02-19		Stay Stay Stay Stay Stay Stay Stay Stay
	04-02-19 to	2	Classification of aves with examples upto orders.
	09-02-19		Flight adaptation of birds
	11-02-19 to	2	Flight adaptation of birds
F 1 10	16-02-19		
Feb 19	18-02-19 to	2	Economic importance of birds.
	23-02-19		
	25-02-19 to	2	General characters of Mammalia
	02-03-19		14 17 11
	05-03-19 to	2	classification upto sub classes with suitable
	09-03-19		examples
M	11-03-19 to	2	Study of rat- morphology and digestive system
Mar 19	16-03-19		
19	18-03-19 to	2	Study of digestive system and aterial & venous system
	23-03-19		
	25-03-19 to	2	Atrial & venous system
	30-03-19		
April 19	01-04-19 to	2	Female Reproductive system of rat
	05-04-19		0
	08-04-19 to	2	Male reproductive system of rat.
	13-04-19		D 11
	15-04-19 to	2	Revision
	20-04-19		D
	21-04-19 to	2	Revision
	22-04-19		



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Date of Reopening 21-12-2018 Commencement of Classes II semester :21-12-2018 B.Sc. II Semester paper 2.1

Hours Month Week Syllabus to be covered 21-12-18 to 2 Pisces: General characters 29-12-18 31-12-18 to 2 classification with suitable examples of Oestichthyes and 05-01-19 7-01-19 to 2 Classification of Chondryichthyes 12-01-19 15-01-19 to 2 Amphibia: General characters 19-01-19 Jan-21-01-19 to 2 classification up to [living only] orders with suitable 19 25-01-19 examples. classification up to [living only] orders with suitable 28-01-19 to 2 02-02-19 examples. 04-02-19 to 2 Ecology and distribution of Amphibia. 09-02-19 11-02-19 to 2 Hyla, Bufo, Salamander, Ichtyophis Feb 19 16-02-19 18-02-19 to Reptilia: General characters and classification up to orders 2 23-02-19 25-02-19 to living orders only] with suitable examples. 2 02-03-19 05-03-19 to 2 Structure and Poison apparatus of Cobra. 09-03-19 March 19 11-03-19 to 2 Poisonous [Krait, Viper, Cobra, Hydrophis] 16-03-19 18-03-19 to 2 Non Poisonous [Python, Typhlop, Natrix, Eryx] snakes of 23-03-19 India 25-03-19 to Osteology: frog - Axial Skeleton 2 30-03-19 01-04-19 2 appendicular Skeleton 05-04-19 08-04-19 to 2 Osteology of rabbit. Axial Skeleton April 13-04-19 19 15-04-19 to 2 Appendicular Skeleton 20-04-19 21-04-19 to Revision 2 22-04-19

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3. Miss. Neha Naseeba Guest Lecturer in Zoology

Revision

Date of Reopening 21-12-2018 Commencement of Classes VI semester: 21-12-2018 B.Sc. VI Semester paper 6.1 Hours Syllabus to be covered Month Week Introduction: Branches of Embryology, Scope of Embryology, 21-12-18 to 2 29-12-18 Theories of development, pre formation and epigenetic theory. 31-12-18 to 2 Spermatogenesis and oogenesis - comparison 05-01-19 spermatogenesis and oogenesis 7-01-19 to 2 Kinds of fertilization, 12-01-19 approach of gametes, fertilization and anti fertilization, 15-01-19 to 2 acrosome reaction - cortical reaction Jan-19-01-19 21-01-19 to Amphimixis, monospermic 19 2 25-01-19 polyspermic fertilization, significance of fertilization 28-01-19 to 2 02-02-19 Types of cleavage - Holoblastic, meroblastic, radial and spiral 04-02-19 to 2 09-02-19 types with examples 11-02-19 to Effect of yolk on cleavage 2 Feb 19 16-02-19 Early development of frog: Structure of ovum, cleavage 18-02-19 to 2 23-02-19 Early development of frog: blastulation and gastrulation. 25-02-19 2 02-03-19 05-03-19 to 2 Early development of chick: Structure of hen's egg, cleavage 09-03-19 March 19 11-03-19 to 2 blastulation, gastrulation 16-03-19 18-03-19 to origin and structure of primitive streak 2 23-03-19 25-03-19 to 2 Early development of chick: structure of 24 30-03-19 01-04-19 to 48 hours chick embryos. 2 05-04-19 08-04-19 2 Extra embryonic membranes. April 13-04-19 19 15-04-19 to 2 Revison 20-04-19

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21-04-19 to

22-04-19

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2. Miss. Lakshmin Sowjanya, Guest Lecturer in Zoology

Date of Reopening 21-12-2018 Commencement of Classes IV semester: 21-01-2018 B.Sc. IV Semester paper 4.1 Week No Syllabus to be covered of Hrs Introduction: Branches of physiology, scope of physiology 21-12-18 to 02 December 18 29-12-18 02 Digestion: Mechanical digestion chemical digestion-31-12-18 to and 05-01-19 Digestion and absorption of proteins 02 Digestion and absorption of carbohydrates and lipids 7-01-19 to 12-01-19 01 Respiration: External and internal respiration - Respiratory 15-01-19 to 19-01-19 pigments Hemoglobin, haemocyanin and haemoerythrin. 21-01-19 to 02 Physiology of respiration – exchange of gases, transport of O₂, Jan -19 25-01-19 oxygen dissociation curves - Borh's effect, 28-01-19 to 02 transport of CO₂, chloride shift, respiratory quotient 02-02-19 02 Circulation: Types of circulation – structure, functions and regulation of 04-02-19 to 09-02-19 human heart Blood pressure, composition of human blood, neurogenic and FeB-11-02-19 to 02 16-02-19 myogenic hearts. 19 18-02-19 to 02 Nitrogen excretion in aquatic and terrestrial animals 23-02-19 Ammonotelism and ureotelism and uricotelism with examples. 25-02-19 to 02 Ornithine (Urea) cycle. Physiology of urine formation 02-03-19 05-03-19 to 02 . Enzymes: Classification of enzymes (IUB system), 09-03-19 March 19 02 Mechanism of enzyme catalyzed action - lock and key method, 11-03-19 to 16-03-19 induced fit hypothesis. 18-03-19 to 02 Specificity of enzymes, reversibility of enzyme action, 23-03-19 25-03-19 02 enzyme inhibitors, cofactors 30-03-19 Vitamins: Fat soluble vitamins (A,D,E and K) functions and 01-04-19 to 02 05-04-19 deficiency symptoms. Water soluble vitamins (B complex and vitamin C) functions and 08-04-19 to 02 13-04-19 deficiency symptoms. April Revision 15-04-19 to 02 19 20-04-19

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21-04-19 to

22-04-19

02

Revision

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Date of	reopening and	Comm	encement of Classes:21-12-2018
	e of completion		
Month	Week	Hours	Syllabus to be covered
Decem ber 2018	21-12-2018 to29-12-2018	2	Muscle contraction: Principle types of muscles. Ultrastructure of striated musciles,
6	31-12-18 to 05-01-19		contractile proteins – myosin, actin, tropomyosin, troponin and actinin.–
NRY-1	07-01-19 to 12-01-19	2	Mechanism of muscle contraction and relaxationthe sliding filament theory
JANUARY-19	15-01-19 to 19-01-19	2	Nervous co-ordination: Nature and conduction of nerve impulse
J	21-01-19 to 25-01-19	2	Neuromuscular and synaptic transmission junction neurotransmitters
	28-01-19 to 02-02-19	2	Endocrine system: Functions of mammalian endocrine glands pituitary, thyroid,
YY-19	04-02-19 to 09-02-19	2	parathyroid, ,testis, ovary,
FEBRUARY-19	11-02-19 to 16-02-19	2	pancreas, adrenals, placenta and pineal gland.
FEB	18-02-19 to 23-02-19	2	Hypothalamus and its stimulatory and inhibitory hormones.
	25-02-19 to 02-03-19	2	Immunology: Itroduction
	05-03-19 to 09-03-19	2	Immune system – General characteristic organs and cells of immune system, bone - marrow,–
MARCH-19	11-03-19 to 16-03-19	2	primary lymphoid organ – Bursa of Fabricus, thymus, payer's patches- T and B cells
MAI	18-03-19 to 23-03-19	2	Antigens and antigenecity – immunoglobulinstructure of immunoglobulin G(IgG) and immunization,.
	25-03-19 to 30-03-19	2	AIDS – Causative factors, effects and preventive measures
19	01-04-19 to 05-04-19	2	BIOENERGETICS: Concept of Bioenergetics, free energy changes, glyucolysis Bioenergetics of glycolysis.
APRIL-19	08-04-19 to 13-04-19	2	Kreb's cycle – electron transport chain and phosphorylation,
∢	15-04-19 to 20-04-19	2	bioenergetics of Kreb's cycle
	21-04-19 to 22-04-19	2	Revision
	22-04-19		LAST WORKING DAY

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	05-03-19 to	4	Continuous and discontinuous distributions with examples -
	09-03-19		Barriers of dispersal - topographic and vegetative barriers,
			large bodies of water as barriers climatic barriers.
	11-03-19 to	4	Wild life fauna in the Himalayan ranges the peninsular
	16-03-19		Indian sub region, Deccan plateau,
	18-03-19 to	4	Western Ghats, Eastern hill chain, the Indian desert, tropical
6	23-03-19		rain forests, wild life in Andaman and Nicobar Islands.
MARCH-19	25-03-19 to	4	Definition, Wild life problems -Hunting, over harvesting,
E	30-03-19		habitat loss, Pollution and Climate change. Importance of
A.R.			Wild Life Conservation and management. Ex-situ
M,			Conservation and In Situ Conservation
	01-04-19 to	4	Indian Board for Wildlife (IBWL), Wildlife Institute of
	05-04-19		India (WII), Central Zoo Authority of India (CZA), Bombay
			Natural History Society (BNHS), Project Tiger,
	08-04-19 to	4	Wild life (protection) Act 1972. World Wide Fund for
	13-04-19		Nature (WWF), Convention of international trade in
6			endangered species of wild life flora and fauna. CITES),
APRIL-19	15-04-19 to	4	(Ramsar convention, Convention on Biological Diversity
\square	20-04-19	1	(CBD), Trade Record Analysis of Flora & Fauna in
AP	***************************************		Commerce (TRAFFIC) IUCN- Red Data Book,
	21-04-19 to	2	Revision
	22-04-19		
	22-04-19		LAST WORKING DAY

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Department of Zoology Lesson plan 2018-19 II, IV and VI Semester 1. D.Satheesh, Asst. Prof in Zoology,

Paper -6.2 .Ecology , Zoogeography and Wild life
Date of reopening and Commencement of Classes:21-12-2018
Last date of completion 22/04/2019

	Date of r	and the state of t	ng and Commencement of Classes:21-12-2018 ast date of completion 22/04/2019		
Mont h	Week	Hour	Syllabus to be covered		
Dec 2018	21-12-2018 to29-12-2018	5	Definition, History, Ecology spectrum – Subdivision of Ecology – Scope of Ecology. Light – effect of light on animals, Temperature – thermal stratification – effect of temperature on animals, Adaptations to extreme temperature.		
	31-12-18 to 05-01-19	4	Mutualism, commensalism parasitism, ammensalism, predation and competition with relevant examples. Components and Functions of Ecosystem. Natural ecosystems and man engineered ecosystem. Laws of thermodynamics. Energy flow in ecosystem, types of food chains with examples, Food web, ecological pyramids.		
	07-01- 19 to 12-01-19	4	Study of pond as Typical Ecosystem –Zonation, abiotic components and biotic components Community structure, Ecological stratification – Ecotone& Edge effect. Ecological Niches.		
RY-19	15-01-19 to 19-01-19	4	Marine habitat: Physico-Chemical Feature, ecological zonation and classification of marine biota, Ecological adaptations to pelagic water and Deep Sea, Estuarine habitat: Physico-Chemical Features and Biota. Mangroves.		
JANUARY-19	21-01-19 to 25-01-19	4	Fresh water habitat: Physico-Chemical Features of Lentic and lotic water bodies. Ecological adaptations of fresh water animals living in Lotic Water bodies		
28-01-19 to 4 Terrestrial habitat – A (Characteristics and fauna of Savannas, chaparrals, Decided and Control of the Control o		Terrestrial habitat – A brief account of biomes (Characteristics and fauna of Tundra, taiga, Grasslands, Savannas, chaparrals, Decidua's Forests and Deserts.). Faunal adaptations to Desert conditions			
	04-02-19 to 09-02-19	4	Population density, Natality and Biotic potential – Allee's principle and Gause's principle Mortality, age distribution,		
FEBRUARY-19	11-02-19to 16-02-19	4	population growth rate, population growth curves. Environment pollution: Definition, Pollutants and types of Pollution- Air Pollution,		
	18-02-19 to 23-02-19	4	Water Pollution, Soil Pollution - Sources, effect and control		
FEBRU	25-02-19 to 02-03-19	4	Zoogeographical realms (with subdivision) of world, with climatic conditions and examples of characteristic fauna – brief account of Wallace's line		

Cluss :

Hours

Topic to be covered

		D	ate of Reopening 21-12-2018
	Comr	nencen	nent of Classes VI semester: 21-12-2016
			B.Sc. VI Semester paper 6.1
Month	Week	Hours	Syllabus to be covered
	21-12-18 to 29-12-18	2	History of cell biology and its branches. Cell Theory
Decemb er 18	31-12-18 to 05-01-19	2	Study of light and electron microscope
	7-01-19 to 12-01-19	2	cell fractionation, ultra structure of animal cell.
-	15-01-19 to 19-01-19	2	Cell organelles Structure and functions of Plasma membrane
Jan 19	21-01-19 to 25-01-19	2	Mitochondria, Golgi complex
	28-01-19 to 02-02-19	2	Lysosomes, endoplasmic reticulum
	04-02-19 to 09-02-19	2	Ribosomes, Nucleus
	11-02-19 to 16-02-19	2	Centrioles, cytoskeletal elements
Feb 19	18-02-19 to 23-02-19	2	Cell cycle: Mitosis & meiosis
	25-02-19 to 02-03-19	2	meiosis and regulations of cell cycle
	05-03-19 to 09-03-19	2	Biology of cancer: Types of cancer, & characteristics of cancer cell,
Mar 19	11-03-19 to	2	carcinogenic agents (physical, chemical and biological)& Reproductive system and Early development of human: Menstrual cycle and its regulation
.,	18-03-19 to	2	Structure of sperm and ovum, ovulation, cleavage
	25-03-19 to 30-03-19	2	morula, blastocyst and implantation. Placenta introduction
	01-04-19 to 05-04-19	0 2	Placenta: Morphological and histological classifications of placenta with examples
April	08-04-19 t	0 2	Placenta: structure and functions of placenta – yolk sac placenta, allantoic placenta.
19	15-04-19 t 20-04-19	0 2	Modern trends in human reproduction:Sperm bank, IVF cloning, surrogate mother
	21-04-19 t 22-04-19	:0 2	multiple births - twips. Revision

read of the Department of Zootogs

Smt. A.S.M. College for Women BALLARY-583 APR

H.O.D.

Principal Smt. Remotedlage

For Women, Ballari.

Asst./Asso. Professor

Subject 1 - Loolog

Remarks Topic to be covered Iours Date of Reopening 21-12-2018 Commencement of Classes II semester:21-12-2018 B.Sc. II Semester paper 2.1 Syllabus to be covered Hours Month Week General characters of chordate 21-12-18 to December 18 29-12-18 outline classification of the Phylum Chordata up to 2 31-12-18 to classes with examples 05-01-19 GC of sub phylum urochordata, cephalochordata 2 7-01-19 12-01-19 GC of vertebrata and class cyclostomata (GC) 2 15-01-19 to 19-01-19 Cyclostomta with examples- General organization of Jan 19 2 21-01-19 to Petromyzon. 25-01-19 General organization of Petromyzon. Introduction to 2 28-01-19 to 02-02-19 GC of Aves and classification 2 04-02-19 to 09-02-19 Classification of aves with examples upto orders. 11-02-19 to 2 Flight adaptation of birds 16-02-19 . Flight adaptation of birds Feb 19 18-02-19 to 23-02-19 Economic importance of birds. 25-02-19 to 2 02-03-19 GC of Mammals and classification upto sub classes 05-03-19 to with suitable examples 09-03-19 Study of rat- morphology and digestive system 11-03-19 to Mar 16-03-19 Study of digestive system and aterial & venous system 19 18-03-19 to 23-03-19 Atrial & venous system and reproductive system of rat. 25-03-19 to 2 30-03-19 Reproductive system of rat 2 01-04-19 to 05-04-19 Revision 2 08-04-19 to 13-04-19 April Revision 15-04-19 to 2 19 20-04-19 Revision 21-04-19 to 22-04-19

Asst. Asso. Professor

Smt. A.S.M. sales for Women

head of the Department of Zoolog

BALLARI-133 103

H.O.D.

Smt. ASM College For Wincina Ballari.

Name of the faculty: Chailange H.S

TEACHING PLAN

Class: 2018-19

Hours	HS.	Topic to be covered Remar			
	Month	Week	Hours	Syllabus to be covered	
		05-07-18 to 07-07-18	1	Genetic engineering and biotechnology. Introduction	
	July-18	9-07-18 to 14-07-18	2	Recombinant DNA technology, (Isolation of Gene, Endonuleases, Palindrome Sequence, Cloning Vectors-Plasmids, Gene Cloning),	
	2	16-07-18 to 21-07-18	2	Production of insulin by r DNA technology,	
×		23-07-18 to 28-07-18	2	PCR and, DNA finger printing	
		30-07-18 to 04-08-18	2	DNA vaccines	
3 73 74	_ [06-08-18 to 11-08-18	2	Applications of genetic engineering in Medicine,	- 0
	August-18	13-08-18to 18-08-18	2	food technology and agriculture.	
	Aug	20-08-18 to 25-08-18	2	Useful and harmful effect of biotechnology	
	2.5	27-08-18 to 01-09-18	2	Nesting behavior in Birds: Nesting behavior in Birds -	
		03-09-18 to 08-09-18	2	Types of Nests.	
	September-18	10-09-18 to 15-09-18	2	Mimicry: Definition, types of mimicry,	10 Table 1
,	Septen	17-09-18 to 22-09-18	2	protective, aggressive and warning mimicry with suitable examples,.	
		24-09-18 to 29-09-18	2	coloration – types of coloration	
	∞	01-10-18 to 06-10-18	2	Fossils and Fossilization, Types of Fossils,	
	October-18	08-10-18 to 13-10-18	2	Significance of fossils. Origin and evolution of man.	
	0	15-10-18 to 20-10-18	2	Revision	
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21 21 21 QL	51 (x)			- Tel	
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Asst./Asso. Professor

Smt. A.S.M. College for Women BALLARP583 103.

PRINCIPAL, Smi.Prignipelilege For Women, Ballari. Name of the faculty: - Lakehner Sorgange. 4 Sub: Looks gy. Lesson Plan.



	(Comme	Date of Reopening 21-12-2018 encement of Classes IV semester :21-01-2018 B.Sc. IV Semester paper 4.1
Month	Week	No of Hrs	Syllabus to be covered
8	21-12-18 to 29-12-18	02	Introduction: Branches of physiology, scope of physiology
December 18	31-12-18 to 05-01-19	02	Digestion: Mechanical digestion and chemical digestion- Digestion and absorption of proteins
Dece	7-01-19 to 12-01-19	02	Digestion and absorption of carbohydrates and lipids
	15-01-19 to 19-01-19	01	Respiration: External and internal respiration – Respiratory pigments Hemoglobin, haemocyanin and haemoerythrin.
Jan -19	21-01-19 to 25-01-19	02	Physiology of respiration – exchange of gases, transport of O ₂ , oxygen dissociation curves – Borh's effect,
-17	28-01-19 to 02-02-19	02	transport of CO ₂ , chloride shift, respiratory quotient
FeB- 19	04-02-19 to 09-02-19	02	Circulation: Types of circulation - structure, functions and regulation of human heart
	11-02-19 to 16-02-19	02	Blood pressure, composition of human blood, neurogenic and myogenic hearts.
	18-02-19 to 23-02-19	02	Nitrogen excretion in aquatic and terrestrial animals — Ammonotelism and ureotelism and uricotelism with examples.
	25-02-19 to 02-03-19	02	Ornithine (Urea) cycle. Physiology of urine formation
19	05-03-19 to 09-03-19	02	. Enzymes : Classification of enzymes (IUB system),
March 19	11-03-19 to 16-03-19	02	Mechanism of enzyme catalyzed action – lock and key method, induced fit hypothesis.
4	18-03-19 to 23-03-19	02	Specificity of enzymes, reversibility of enzyme action,
	25-03-19 to 30-03-19	02	enzyme inhibitors, cofactors
	01-04-19 to 05-04-19	02	Vitamins: Fat soluble vitamins (A,D,E and K) functions and deficiency symptoms.
	08-04-19 to	02	Water soluble vitamins (B complex and vitamin C) function and deficiency symptoms.
April 19	15-04-19 to 20-04-19		Revision
	21-04-19 to	02	Revision

Smt. ASM College For Women, Ballari. nead of the Department of Zoologs Smt. A.S.M. College for Women BALLARI-583 103...

Class:

Topic to be covered Hours

Remarks

Month	Week	Hours	Syllabus to be covered
TOTAL	D . C. anoni	ing :01-	06-2018
±1 50	Commencemen	+ -+ (10	CCAC 119-110-7.010
	19-06-18 to	02	
June- 18	23-07-18		Principles of animal Classification- Five Kingdom classification, concept of species Animal nomenclature (Binomial and Trinomial)
	02-07-18 to	02	Phylum-Protozoa: General characters and classification
	07-07-18	erons:	· · · · · · · · · · · · · · · · · · ·
	9-07-18 to	02	Phulum - Porifera: General characters and classification up to
18	14-07-18		1 with quitable examples
July-18	16-07-18 to	02	Histology and spicules. Canal system in sponges
Ju	21-07-18		
	23-07-18 to	02	Phylum-Coelenterata: General characters Classification up to
	28-07-18		classes with suitable examples.
	30-07-18 to	02	
CAST	04-08-18		Formation and types of Coral reefs
127	06-08-18 to	02	Structure and life Cycle of Hydra.
8	11-08-18		
August-18	13-08-18to	02	Phylum Platyhelminthes: General characters and classification up
Sus	18-08-18	1000000	to classes with suitable examples
3	20-08-18 to	02	Structure and life cycle of Taenia solium,
4	25-08-18	7.00	
	27-08-18 to	02	Host parasite relationship and parasitic adaptatations
	01-09-18		\$36
	03-09-18 to	02	Plulum: Nemathelminthes: : General characters and classification
	08-09-18	-	up to classes with suitable examples
~ ·	10-09-18 to	02	Parasitic adaptations of Guinea worm
7	15-09-18	02	
pe pe	13-09-18		9
September-18	17.00.10 40	02	Parasitic adaptations encysted micro filaria, and hook worm
ep	17-09-18 to 22-09-18	02	
S	24-09-18 to	02	Phylum- Annelida: General characters and classification up to
	29-09-18	02	classes with suitable examples.
	01-10-18 to	02	Structure Pheretima posthuma: Externals Digestive
10		02	Oll details a real parties of the second of
	06-10-18 08-10-18 to	02	
	13-10-18 to	02	Nervous system, Reproductive system
	13-10-10		110110000)01111111111111111111111111111
_	15-10-18 t	0 02	life cycle of Pheretima posthuma
7	20-1018	02	MEX. PV PUT STATE TO SEE NO. 14.
per		o 02	Ecological adaptation of polychaeta
October-18	27-1018	02	
0			D. dalam
	29-10-2018	01	Revision
	to 31-102013	0	

Asst./Asso. Professor

H.O.D. Smi. A.J.m. Lodege for Women

BALLARI-583 103.

PRINCIPAL, Smt. ASM College For Women, Ballari. :- Lakehmi Sonfanye. V TEACHING PLAN

Class:

Hours

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Topic to be covered

Remarks

Month	Week	Hours	Syllabus to be covered 1/1/1
	Date of reopen	ing :01	-06-2018
	Commencemen	nt of Cla	asses:11-06-2018
81	11-06-18 to 16-06-18	02	Apiculture: Honey bee morphology, mouth parts, honey sac, wax glands, types of different species and races
JUNE-18	18-06-18 to 23-07-18	02	Management of bee keeping (modern method) Economic important of honey, wax, pollen, venom and bee pollination
	02-07-18 to 07-07-18	02	A note on production on honey, its chemical composition and honey bee diseases.
July-18	9-07-18 to 14-07-18	02	Brief history and concept of sericulture: Moriculture; different types of mulberry (Morus alba, Morus codifelia, Morus indica, Morus nigra).
July	16-07-18 to 21-07-18	02	Grainage – grainage activities Silk worm rearing
	23-07-18 to 28-07-18	02	2. Postharvest technology
el El	30-07-18 to 04-08-18	02	Life cycle of <i>Bombyx mori</i> , environmental condition needed for rearing,
81	06-08-18 to 11-08-18	02	modern method of rearing house,
August-18	13-08-18to 18-08-18	02	rearing equipments chawki, worm and adult worm rearing methods.
Ą	20-08-18 to 25-08-18	02	Non mulberry silk worm (ex. Muga and Tasar)
3 j	27-08-18 to 01-09-18	02	Silk worm pests and predators
4	03-09-18 to 08-09-18	02	A note on silk worm diseases.) Bacterial diseases (Digestive track) Muscardine (white or green)
September-18	10-09-18 to 15-09-18	02	muscardine protozoan diseases (Pebrine), and viral diseases (Grasseria).
Septe	17-09-18 to 22-09-18	02	Aquaculture: Principle, scope, techniques
	24-09-18 to 29-09-18	02	Importance of culturing economically important aquatic animals.
	01-10-18 to 06-10-18	02	. Brief account of Indian major carps and fresh water prawn Induced breeding of major carps and seed fish
-18	08-10-18 to 13-10-18	02	Endocrine regulation of fish reproduction. A note on fish by products and fish diseases
October-18	15-10-18 to 20-10-18	02	Revision
0	22-10-18 to 27-10-18	02	Revision

sst./Asso. Professor

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Smt. A.S.M. College for Women BALLARI-583 103.

PRINCIPAL, Si**Phincip**aCollege For Women, Ballari.

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Hours

Class:

Subject: - Looks gy

Topic to be covered Remarks

			Date of Reopening 21-12-2018
	C	Commen	cement of Classes VI semester :21-12-2018
			B.Sc. VI Semester paper 6.1
Month	Week	Hours	Syllabus to be covered
0	21-12-18 to	2	Introduction: Branches of Embryology, Scope of Embryology,
<u> </u>	29-12-18		Theories of development, pre formation and epigenetic theory.
Decemb er 18	31-12-18 to	2	Spermatogenesis and oogenesis - comparison between
Q 9	05-01-19		spermatogenesis and oogenesis
	7-01-19 to	2	Kinds of fertilization,
- 1	12-01-19		
	15-01-19 to	2	approach of gametes, fertilization and anti fertilization,
Jan-	19-01-19		acrosome reaction – cortical reaction
19	21-01-19 to	2	Amphimixis, monospermic
1,040	25-01-19		
8	28-01-19 to	2	polyspermic fertilization, significance of fertilization
90	02-02-19		
	04-02-19 to	2	Types of cleavage - Holoblastic, meroblastic, radial and spiral
	09-02-19		types with examples
Y Carallana	11-02-19 to	2 .	Effect of yolk on cleavage
Feb 19	16-02-19	1	1000 to 1000 t
	18-02-19 to	2	Early development of frog :Structure of ovum, cleavage
	23-02-19		
	25-02-19 to	2	Early development of frog: blastulation and gastrulation.
	02-03-19	_	
	05-03-19 to	2	Early development of chick: Structure of hen's egg, cleavage
_	09-03-19	_	Service of the servic
19	11-03-19 to	2	blastulation, gastrulation
년 년	16-03-19	-	
March 19		12	origin and structure of primitive streak
_	18-03-19 to	2	origin and structure of printerve stream
	23-03-19	12	Early development of chick: structure of 24
	25-03-19 to	2	Early development of emot. Structure of 2.
	30-03-19	12	48 hours chick embryos.
6	01-04-19 to	2	46 Hours effect efforyos.
	05-04-19	-	Extra embryonic membranes.
	08-04-19 to	2	Extra embryome memoranes.
April	13-04-19	-	Devices
19	15-04-19 to	2	Revison
	20-04-19		D
	21-04-19 to	2	Revision
	22-04-19		

Asst./Asso. Professor

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SMH.DSM. College for Women

Smt. ASM College For Women, Ballari.

Name of the Staff: - Meha Maseeba S

Subject: - Lode

TEACHING PLAN

Class:

Hours

Topic to be covered

Remarks

Month	Week	Hours	Syllabus to be covered
	02-07-18 to 07-07-18	2	Unit:6. Phylum-Arthropoda: General characters of
July-18	9-07-18 to 14-07-18	2	classification up to classes with distinctive characters and suitable examples.
July	16-07-18 to 21-07-18	2	classification up to classes with distinctive characters and suitable examples.
	23-07-18 to 28-07-18	2	phylum and Mouth parts of (cockroach & butterfly
	30-07-18 to 04-08-18	2	Type Study of palaemon:- External, digestive System
18	06-08-18 to 11-08-18	2	and Nervous system
August-18	13-08-18to 18-08-18	2	Unit :7. a. Phylum-Mollusca: General characters
Ā	20-08-18 to 25-08-18	2	classification up to classes with distinctive characters and suitable examples
	27-08-18 to 01-09-18	2	classification up to classes with distinctive characters and suitable examples
	03-09-18 to 08-09-18	2	Type study of unio- morphology.
September-18	10-09-18 to 15-09-18	2	digestive and nervous system
Septer	17-09-18 to 22-09-18	2	b. Phylum-Echinodermata: General characters of phylum
	24-09-18 to 29-09-18	2	classification up to classes with distinctive characters and suitable examples.
	01-10-18 to 06-10-18	2	classification up to classes with distinctive characters and suitable examples.
October-18	08-10-18 to 13-10-18	2	Larval forms of Echinodermata
	15-10-18 to 20-10-18	2	Revision
	22-10-18 to 27-10-18	2	Revision

Asst./Asso. Professor

Head of the Department of Zoology
Head of the Department of Zoology
Smt. AS.M. College for Women
Smt. AS.M. College for Women

PRINCIPAL, Principal Smt. ASM College For Women, Ballari. Hu Staff: - Neha Nasceba. S TEACHING PLAN

Class :

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	Week	Hours	Syllabus to be covered
		2	Definition and types of animal behavior
	9-07-18 to	2	Innate behavior: Kinesis, Taxes, Reflexes, Instincts and Motivation
III)	10-07 10 10	2	Learned behavior: Habituation, Imprinting
	23-01 10 10	2	Conditioned reflex and Insight learning
A Total	28-07-18 30-07-18 to	2	Social organization in Honey bees, Termites.
	04-08-18 06-08-18 to	2	Social organization Macaques.
o i etankiny	11-08-18 13-08-18to 18-08-18	2	Migration in fishes – Types of migration, anatropous and catadromous migration with reference to Hilsa and Anguilla
	20-08-18 to 25-08-18	2	Migration in birds- Methods of studying inigration
	27-08-18 to 01-09-18	2	Types of Bird Migration, Orientation and Navigation.
	03-09-18 to 08-09-18	2	Biological Clock :Introduction, Definition of chronobiology Biological clock, origin of biological clock
	10-09-18 to 15-09-18	2	various types of Rhytlims.
	17-09-18 to 22-09-18	2	Courtship Behavour: Definition,
8	24-09-18 to 29-09-18	2	general principles courtship in scorpions and peacock.
D	01-10-18 to 06-10-18	2	Parental care in fishes.
October-18	08-10-18 to 13-10-18	2	Parental care amphibians
Oote	15-10-18 to 20-10-18	0 2	Revision

Asst./Asso. Professor

Smt. AH. O. Dollege for Women

BALLARI-583 103.

PRINCIPAL, Principalies Smt. Asimediles For Women, Balls

TEACHING PLAN Class:

Paper -6.2 . Ecology , Zoogeography and Wild life Date of reopening and Commencement of Classes: 21-12-2018 Last date of completion 22/04/2019 Month Week Hours Syllabus to be covered Definition, History, Ecology spectrum - Subdivision of Ecology - Scope 21-12-2018 to29-12-2018 of Ecology. Light - effect of light on animals. Temperature - thermal Dec 2018 stratification - effect of temperature on animals, Adaptations to extreme 31-12-18 to Mutualism, commensalism parasitism, ammensalism, predation and competition with relevant examples. Components and Functions of 05-01-19 Ecosystem. Natural ecosystems and man engineered ecosystem. Laws of thermodynamics. Energy flow in ecosystem, types of food chains with examples, Food web, ecological pyramids. Study of pond as Typical Ecosystem -Zonation, abiotic components and 07-01-19 to biotic components Community structure, Ecological stratification -12-01-19 Ecotone& Edge effect. Ecological Niches. Marine habitat: Physico-Chemical Feature, ecological zonation and 15-01-19 to 4 JANUARY-19 classification of marine biota, Ecological adaptations to pelagic water 19-01-19 and Deep Sea, Estuarine habitat: Physico-Chemical Features and Biota. 21-01-19 to Fresh water habitat: Physico-Chemical Features of Lentic and lotic 25-01-19 water bodies. Ecological adaptations of fresh water animals living in Lotic Water bodies 28-01-19 to Terrestrial habitat - A brief account of biomes (Characteristics and 02-02-19 fauna of Tundra, taiga, Grasslands, Savannas, chaparrals, Decidua's Forests and Deserts.). Faunal adaptations to Desert conditions 04-02-19 to Population density, Natality and Biotic potential - Allee's principle and 4 09-02-19 Gause's principle Mortality, age distribution, 11-02-19to population growth rate, population growth curves. 4 16-02-19 FEBRUARY-19 Environment pollution: Definition, Pollutants and types of Pollution- Air Pollution, 18-02-19 to Water Pollution, Soil Pollution - Sources, effect and control 4 23-02-19 25-02-19 to Zoogeographical realms (with subdivision) of world, with climatic 4 conditions and examples of characteristic fauna - brief account of 02-03-19 Wallace's line 05-03-19 to Continuous and discontinuous distributions with examples - Barriers of dispersal - topographic and vegetative barriers, large bodies of water as 09-03-19 barriers climatic barriers. 11-03-19 to Wild life fauna in the Himalayan ranges, the peninsular Indian sub 4 16-03-19 region, Deccan plateau, 18-03-19 to Western Ghats, Eastern hill chain, the Indian desert, tropical rain forests, MARCH-19 4 wild life in Andaman and Nicobar Islands. 23-03-19 25-03-19 to Definition, Wild life problems -Hunting, over harvesting, habitat loss, 4 Pollution and Climate change. Importance of Wild Life Conservation and 30-03-19 management. Ex-situ Conservation and In Situ Conservation 01-04-19 to Indian Board for Wildlife (IBWL), Wildlife Institute of India (WII), 4 05-04-19 Central Zoo Authority of India (CZA), Bombay Natural History Society (BNHS), Project Tiger, Wild life (protection) Act 1972. World Wide Fund for Nature 08-04-19 to (WWF), Convention of international trade in endangered species of wild 13-04-19 life flora and fauna. CITES), (Ramsar convention, Convention on Biological Diversity (CBD), Trade 15-04-19 to 4 Record Analysis of Flora & Fauna in Commerce (TRAFFIC) IUCN- Red 20-04-19 Data Book, 21-04-19 to Revision 22-04-19 22-04-19 LAST WORKING DAY

Asst./Asso. Professor

H.O.D.

Sinting par College For Women, Ballari.

Class:

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			4 CCI21 12 2019	
Date of	reopening and	Commo	encement of Classes:21-12-2018	
Last date of completion 22/04/2019				
Month	Week	Hours	Syllabus to be covered	
= ~	21-12-2018		Muscle contraction: Principle types of muscles.	
Decam ber 2018	to29-12-2018	2	Ultrastructure of striated musciles,	
	1 G_G 12			
61	31-12-18 to		contractile proteins - myosin, actin, tropomyosin, troponin	
	05-01-19		and actinin.—	
	07-01-19 to	2	Mechanism of muscle contraction and relaxationthe sliding	
>	12-01-19	2	filament theory	
JANUARY-19		_	Nervous co-ordination: Nature and conduction of nerve	
\supseteq	15-01-19 to	2		
~	19-01-19		impulse	
-,	21-01-19 to	2	Neuromuscular and synaptic transmission junction	
	25-01-19		neurotransmitters	
	28-01-19 to	2	Endocrine system: Functions of mammalian endocrine	
	02-02-19		glands pituitary, thyroid,	
<u>S</u>	04-02-19 to	2	parathyroid, ,testis, ovary,	
>	09-02-19			
ž	11-02-19 to	2	pancreas, adrenals, placenta and pineal gland.	
FEBRUARY-19	16-02-19			
9.	18-02-19 to	2	Hypothalamus and its stimulatory and inhibitory hormones.	
☲	23-02-19	18		
	25-02-19 to	2	Immunology: Itroduction	
	02-03-19	1	1 11 0	
	05-03-19 to	2	Immune system - General characteristic organs and cells of	
	09-03-19		immune system, bone - marrow,-	
6	11-03-19 to	2	primary lymphoid organ - Bursa of Fabricus, thymus,	
-	16-03-19		payer's patches- T and B cells	
Ö				
MARCH-19	18-03-19 to	2	Antigens and antigenecity - immunoglobulinstructure of	
Σ	23-03-19		immunoglobulin G(IgG) and immunization,.	
	25-03-19 to	2	AIDS – Causative factors, effects and preventive measures	
	30-03-19	-	This culture is a second of the second of th	
	01-04-19 to	2	BIOENERGETICS: Concept of Bioenergetics, free energy	
APRIL-19	05-04-19	-	changes, glyucolysis Bioenergetics of glycolysis.	
	08-04-19 to	2	Kreb's cycle – electron transport chain and phosphorylation,	
	13-04-19	2	Rico s cycle election attributes and party	
	The state of the s	12	Linear exercises of V volvin avale	
	15-04-19 to	2	bioenergetics of Kreb's cycle	
	20-04-19	12	Revision .	
	21-04-19 to	2	Kevision .	
	22-04-19		LACT WORKING DAV	
	22-04-19		LAST WORKING DAY	

Asst./Asso. Professor

H.O.D.

Smt. ASM College

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Alame of the Staff: - B. Sattreech

TEACHING PLAN

Class:

Remarks Hours				Т	opic to be covered Remark
				*****	(S (SALL RIP)) 3) 3) 3) 3) 3) 3) 3) 3) 3)
		Date of	reopening :01-0	06-2018	THE ALL W
			ncement of Clas	Hours	Syllabus to be covered
		Month ∞	Week 11-06-18 to		Poultry: Aim and scope of poultry. Poultry form management
n:		JUNE-18	16-06-18	2	Nutritive value of egg and poultry meat. Poultry breeds in India
of		B	18-06-18 to 23-07-18	2	
tie l		AT	02-07-18 to 07-07-18	2	Rearing house equipment,
		July-18	9-07-18 to 14-07-18	2	Food and its composition, broilers, layers.
		Jul	16-07-18 to 21-07-18	2	A note on diseases. Nutritional deficiency diseases, Ectoparasition diseases,
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Manager		23-07-18 to 28-07-18	2	Viral diseases, Bacterial diseases, protozoan diseases.
	1		30-07-18 to 04-08-18	2	Helminthes diseases and genetic diseases of poultry birds, symptoms, remedies, and their control.
	1	8	06-08-18 to 11-08-18	2	Dairy forming: Importance, scope,
eon e	ti	August-18	13-08-18to 18-08-18	2	Management of forming animals, breeds of cows and buffaloes
3.1.		Au	20-08-18 to 25-08-18	2	Nutritional requirements,
			27-08-18 to 01-09-18	2	Housing and hygiene of dairy animals.
			03-09-18 to 08-09-18	2	Milk and milk products. Processing, preservation and marketing.
		er-18	10-09-18 to 15-09-18	2	Breeding techniques - artificial insemination. Breedin programme to improve local breeds.
		September	17-09-18 to 22-09-18	2	Vermiculture: Vermiculture its concept and importance. Procedure of Vermiculture (Small scale large scale).
			24-09-18 to 29-09-18	2	Role of earthworm in soil fertility
			01-10-18 to 06-10-18	2	Pearl culture: Microscopic structure of Shell.
	£	er-18	08-10-18 to 13-10-18	2_	Pearl formation
		October-18	15-10-18 to 20-10-18	2	Revision.
			22-10-18 to 27-10-18	2	Revision
			27-10-18	2	Kevision Wx

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TEACHING PLAN Class:

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Topic to be covered

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. P	10-09-18 to 15-09-18	4	Inborn errors of metabolism: Albinism, Phorylketonuria, Alkaptoneuria, Sickle cell anaemia. Thalassemia, Huntington's chorea, Eugenics.
15	17-09-18 to 22-09-18	4	Human genetics and eugenics: Common human genetic disorders
	24-09-18 to 29-09-18	4	Introduction to evolution: Theories of organic evolution: Lamarckism and neo- Lamarckism. Darwin- Wallace theory of natural selection
October-18	01-10-18 to 06-10-18	4	Synthetic theory of evolution. Gene mutation, gene flow, genetic drift, isolation,
	08-10-18 to 13-10-18	4 .	Natural selection and Hardy- Weinberg equilibrium. Speciation: concepts of species, Sympatric and allopatric speciation
	15-10-18 -to 20-10-18	4	Microevolution, macroevolution,

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TEACHING PLAN Class:

Name of Staff: - D. Sattruch
Date of reopening: 01-06-2018

	mencement of C		1-06-2018 (2018-19)
Mont	AND DESCRIPTIONS	Hours	Syllabus to be covered
JUNE-18	11-06-18 to 16-06-18	4	Introduction: History of genetics, branches of genetics, heredity and variation. Practical applications of genetics. Genetics Terminology
	18-06-18 to 23-07-18	4	Chromosomes: Chromosome number, size chromosomal morphology, andtypes. Structure and models. Heterochromatin and euchromatin. Giant chromosomes polytene and lampbrush chromosomes
	02-07-18 to 07-07-18	4	Nucleic acids and protein biosynthesis: Introduction: Identification of genetic material – Griffith's experiment. Chemistry of nucleic acids, structure of DNA
∞	9-07-18 to 14-07-18	4	Watson and crick DNA model, replication of DNA. Forms of DNA. Types of RNA. Genetic code, properties of genetic code, wobble hypothesis, mechanism of protein biosynthesis.
July-18	16-07-18 to 21-07-18	4	Interaction of genes: Supplementary factors -9: 3: 3: 1 Example: Comb pattern in fowls. Dominant epistasis-13: 3: plumage colour in Leghorn and yandotte. Dominant epistasis - 12:3:1 Coat colour in dogs Recessive epistasis 9: 3: 4 - Coat colour in mouse
	23-07-18 to 28-07-18	4	C omplementary factors - 9:7, flower colour in sweet peas, Multiple factors / polygenic inheritance –Skin Colour in Man. Lethal gene - Coat colour in mice.
	30-07-18 to 04-08-18	4	Multiple Alleles: Characteristics of Multiple Alleles, Inheritance of coat colour in Rabbit and ABO blood groups in human, Rh-factor, Isoalleles, Pseudoalleles and position effect.
	06-08-18 to 11-08-18	4	Linkage and Crossing over::Linkage:Theories of linkage, Linkage in Drosophila, linkage in man,
August-18	13-08-18to 18-08-18	7 1	Crossing over: Mechanism of meiotic Crossing Over, Types of Crossing over, Cytological detection of crossing over (Stern's Experiment on Drosophila), Significance of Crossing over
•	20-08-18 to 25-08-18	L	Sex determination : Chromosomal mechanism of sex determination, Genic balance theory, Gynandromorphy and intersexes
BF-181436 - 1 -	27-08-18 to 01-09-18	1	Sex linked inheritance: Sex linked inheritance in Drosophila. Haemophillia and colour blindness in man. Sex linkage in poultry, Y linked genes
September-18	03-09-18 to 08-09-18	4	Mutations: Chromosomalabberrations- Human Diseases: Klinefelter's Syndrome, Turner's syndrome, Edwards Syndrome, Patau syndrome Chi- du – chart syndrome and Down's syndrome (Mongolism). Gene mutations – Types of gene mutation and Molecular basis of gene mutations,

Asst./Asso. Professor

Head of the Department of Zoology Smt. A.S.M. College for Women BALLARI-583 103

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