



SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)

Rahmath Nagar, Tirunelveli - 627 011

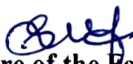
Online-Class Lesson Plan


Academic Year 2020-2021 [Even Semester]

Department: PG DEPARTMENT OF ZOOLOGY

Class	: I MSC ZOOLOGY
Semester	: II
Name of the Faculty	: Dr.J.Shifa Vanmathi
Title of the Course	: CELL AND MOLECULAR BIOLOGY
Subject Code	: 18PCZ021
ICT Tools used	: Laptop
Text books	: C.B.POWAR, Cell Biology
Reference books	: Rastogi, 2006, Cell and Molecular biology
e-resources	: Power point presentation, Subject videos, pdf format

Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
1	25. 01.2021	10.30 to 11.20 am	C	I	Introduction	5. 01.2021	
2	27. 01.2021	10.30 to 11.20 am	D	I	Eukaryotes and Prokaryotes	6. .01.2021	
3	29. 01.2021	10.30 to 11.20 am	F	I	Structure and function of plasma membrane	7. .01.2021	
4	1.02.2021	8.30 to 9.20 pm	B	I	Plasma membrane – models and membrane transport	8. .01.2021	
5	2.02.2021	10.30 to 11.20 am	C	I	Structure and function of endoplasmic reticulum	11. .01.2021	
6	3. 02.2021	10.30 to 11.20 am	D	I	Structure and function of lysosomes	13.01.2021	
7	4. 02.2021	10.30 to 11.20 am	E	I	Structure and function of Golgi bodies	18. 01.2021	


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Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
8	5. 02.2021	10.30 to 11.20 am	F	II	Structure and function of mitochondria.-.	19. 01.2021	
9	8. 02.2021	8.30 to 9.20 pm	B	II	Structure and function of Ribosome	20. 01.2021	
10	9. 02.2021	10.30 to 11.20 am	C	II	Membrane protein and Secretory protein	21. 01.2021	
11	10. 02.2021	10.30 to 11.20 am	D	II	Insertion in to Endoplasmic reticulum membrane.	25. 01.2021	
12	11. 02.2021	10.30 to 11.20 am	E	II	Post transitional modifications of proteins both in the RER and SER	27. 01.2021	
13	12. 02.2021	10.30 to 11.20 am	F	II	Protein glycosylation in endoplasmic reticulum	1.02.2021	
14	16. 02.2021	8.30 to 9.20 pm	B	III	Nucleic Acids – DNA – Structure and functions	1.02.2021	
15	17. 02.2021	10.30 to 11.20 am	C	III	Nucleic Acids – DNA – Structure and functions	2.02.2021	
16	18. 02.2021	10.30 to 11.20 am	D	III	DNA replication	3. 02.2021	
17	19. 02.2021	10.30 to 11.20 am	E	III	Unit of replication, enzymes involved	4. 02.2021	
18	20. 02.2021	10.30 to 11.20 am	F	III	Replication origin and replication fork.	5. 02.2021	
19	23. 02.2021	8.30 to 9.20 pm	B	III	Plasmid replication - Transcription, translation	8. 02.2021	
20	24. 02.2021	10.30 to 11.20 am	C	III	Plasmid replication - elongation and Termination	9. 02.2021	
21	25. 02.2021	10.30 to 11.20 am	D	III	RNA – Structure, types and functions of RNA –mRNA	12. 02.2021	
22	26. 02.2021	10.30 to 11.20 am	E	III	RNA – Structure, types and function of RNA rRNA	12. 02.2021	


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Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
23	27. 02.2021	10.30 to 11.20 am	F	III	RNA – Structure, types and functions of tRNA	12. 02.2021	
24	2. 03.2021	8.30 to 9.20 pm	B	III	RNA polymerase	16. 02.2021	
25	3. 03.2021	10.30 to 11.20 am	C	III	RNA predated and RNA edition - RNA Transport	17. 02.2021	
26	5. 03.2021	10.30 to 11.20 am	E	IV	Oncogenes -Properties	18. 02.2021	
27	6. 03.2021	10.30 to 11.20 am	F	IV	Anti – Oncogenes	19. 02.2021	
28	9. 03.2021	8.30 to 9.20 pm	B	IV	P53 gene	20. 02.2021	
29	10. 03.2021	10.30 to 11.20 am	C	IV	Cancer cell cycle	23. 02.2021	
30	11. 03.2021	10.30 to 11.20 am	D	IV	Interactions of cancer cells with normal cells	24. 02.2021	
31	12. 03.2021	10.30 to 11.20 am	E	IV	Apoptosis	25. 02.2021	
32	13. 03.2021	10.30 to 11.20 am	F	V	Genetic rearrangements in progenitor cell.	26. 02.2021	
33	15. 03.2021	10.30 to 11.20 am	F	V	Structure of chromatin and chromosomes	27. 02.2021	
34	17. 03.2021	10.30 to 11.20 am	B	V	Functions of chromosomes	2. 03.2021	
35	18. 03.2021	10.30 to 11.20 am	C	V	Type of chromosomes	3. 03.2021	
36	19. 03.2021	10.30 to 11.20 am	D	V	Heterochromatin and Euchromatin	5. 03.2021	
37	22. 03.2021	10.30 to 11.20 am	F	V	Transposons –Types	6. 03.2021	

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Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
38	24. 03.2021	10.30 to 11.20 am	B	V	Regulatory mechanism in eukaryotes – Gene expression	9. 03.2021	
39	25. 03.2021	10.30 to 11.20 am	C	V	Regulation at transcriptional and Translational levels	10. 03.2021	
40	26. 03.2021	10.30 to 11.20 am	D	V	Regulation and Translational levels	11. 03.2021	
41	27. 03.2021	10.30 to 11.20 am	E	V	Control of regulatory mechanism of gene expression.	12. 03.2021	
42	30. 03.2021	10.30 to 11.20 am	F	V	Control of regulatory mechanism of gene expression -Prokaryotes	13. 03.2021	

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Online-Class Lesson Plan

Academic Year 2020-2021[Even Semester]

Department: PG Department of Zoology

Class	: I M.Sc Zoology
Semester	: II
Name of the Faculty	: DR. M.I. DELIGHTA MANO JOYCE
Title of the Course	: ANIMAL PHYSIOLOGY
Subject Code	: 18PCZO22
ICT Tools used	: Zoom
Text books	: Animal physiology by Verma and Agarwal
Reference books	: Essentials of medical physiology by Sembulingam-2012
e-resources	: Power point presentation, you tube videos

Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
1	29.01.2021	12.30-1.30 pm	F	I	Introduction to animal physiology	29.01.2021	
2	30.01.2021	11.30-12.30pm	A	I	Balanced diet and digestive system-structure and function	30.01.2021	
3	01.02.2021	12.30-1.30 pm	B	I	Secretory functions of alimentary tract and the glands	01.02.2021	
4	04.02.2021	9.30-10.30am	E	I	Gastro intestinal hormones	04.02.2021	
5	04.02.2021	11.30-12.30pm	E	I	Digestion, absorption and metabolism of carbohydrates	04.02.2021	
6	05.02.2021	12.30-1.30 pm	F	I	Digestion, absorption and metabolism of proteins	05.02.2021	
7	06.02.2021	11.30-12.30pm	A	I	Digestion, absorption and metabolism of lipids	06.02.2021	

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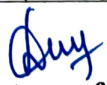
Dr. M.I. Delighta Mano Joyce

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Dr. M.I. Delighta Mano Joyce

Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
8	08.02.2021	12.30-1.30 pm	B	I	Multiple choice questions	08.02.2021	
9	11.02.2021	9.30-10.30am	E	II	Blood components, functions of blood	11.02.2021	
10	11.02.2021	11.30-12.30pm	E	II	Functional anatomy of heart	11.02.2021	
11	12.02.2021	12.30-1.30 pm	F	II	Cardiac cycle, cardiac out put	12.02.2021	
12	15.02.2021	11.30-12.30pm	A	II	Cardiovascular functions	15.02.2021	
13	16.02.2021	12.30-1.30 pm	B	II	Nutrition and metabolism of heart	16.02.2021	
14	19.02.2021	9.30-10.30am	E	II	Coronary circulation	19.02.2021	
15	19.02.2021	11.30-12.30pm	E	II	Cerebral circulation	19.02.2021	
16	20.02.2021	12.30-1.30 pm	F	II	Placental, foetal and neonatal circulation	20.02.2021	
17	22.02.2021	11.30-12.30pm	A	II	Multiple choice questions	22.02.2021	
18	23.02.2021	12.30-1.30 pm	B	III	Respiration in air and water	23.02.2021	
19	26.02.2021	9.30-10.30am	E	III	Physiology and anatomy of respiratory tract	26.02.2021	
20	26.02.2021	11.30-12.30pm	E	III	Gas transport between the lungs and tissues	26.02.2021	
21	27.02.2021	12.30-1.30 pm	F	III	Respiratory adjustments in health and diseases	27.02.2021	
22	01.03.2021	11.30-12.30pm	A	III	Excretory products- organs of excretion	01.03.2021	


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Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
23	02.03.2021	12.30-1.30 pm	B	III	Kidney-nephron	02.03.2021	
24	05.03.2021	9.30-10.30am	E	III	Renal circulation and urine formation	05.03.2021	
25	05.03.2021	11.30-12.30pm	E	III	Micturition and dialysis	05.03.2021	
26	06.03.2021	12.30-1.30 pm	F	III	Multiple choice questions	06.03.2021	
	08.03.2021	11.30-12.30pm	A	IV	Neuron and nerve fibres	08.03.2021	
28	09.03.2021	12.30-1.30 pm	B	IV	Structure and function of spinal cord and brain	09.03.2021	
29	12.03.2021	9.30-10.30am	E	IV	Electroencephalogram	12.03.2021	
30	12.03.2021	11.30-12.30pm	E	IV	Muscles –classification and properties	12.03.2021	
31	13.03.2021	12.30-1.30 pm	F	IV	Mechanism of muscular contraction	13.03.2021	
32	13.03.2021	11.30-12.30pm	A	IV	Sense organ of vision	13.03.2021	
33	15.03.2021	12.30-1.30 pm	B	IV	Sense organ of hearing and equilibrium	15.03.2021	
34	16.03.2021	9.30-10.30am	E	IV	Sense organ of smell and taste	16.03.2021	
35	17.03.2021	11.30-12.30pm	E	IV	Sense organ of cutaneous deep and visual sensation	17.03.2021	
36	22.03.2021	12.30-1.30 pm	F	V	Reproductive physiology-spermatogenesis and oogenesis	22.03.2021	
37	23.03.2021	11.30-12.30pm	A	V	Induced ovulation and invitro oocyte maturation	23.03.2021	



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Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
38	24.03.2021	12.30-1.30 pm	B	V	Fertilization and early embryonic development	24.03.2021	
39	27.03.2021	9.30-10.30am	E	V	Adolescence and senescence	27.03.2021	
40	27.03.2021	11.30-12.30pm	E	V	Embryonic stem cells, ART	27.03.2021	
41	30.03.2021	12.30-1.30 pm	F	V	Population control and family planning	30.03.2021	
42	31.03.2021	11.30-12.30pm	A	V	Revision and Multiple choice questions	31.03.2021	



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Online-Class Lesson Plan

Academic Year 2020-2021|Even Semester|

Department: PG Department of Zoology

Class	: I M.Sc Zoology
Semester	: II
Name of the Faculty	: DR. A.MOHAIDEEN
Title of the Course	: GENETICS AND EVOLUTION
Subject Code	: 18PCZO23
ICT Tools used	: Zoom, Google meet
Text books	: Analysis of Genes & Genomes: 8th Edition. Daniel L.Harti
Reference books	: M. W. Strickberger. 2005. Genetics.3rd Edition
e-resources	: Power point

Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
1	30-01-2021	10.30am - 11.30am	A	I	Law Segregation and law independent assortment of genes	30-01-2021	
2	01-02-2021	09.30am- 10.30am	B	I	Law Segregation and law independent assortment of genes	01-02-2021	
3	03-02-2021	08.30am- 09.30am	D	I	Multiple alleles, genetics of ABO blood grouping and Rh blood groups in man	03-02-2021	
4	03-02-2021	11.30am- 12.30pm	D	I	Multiple alleles, genetics of ABO blood grouping and Rh blood groups in man	03-02-2021	
5	04-02-2021	08.30am- 09.30am	E	I	Sex linked inheritance	04-02-2021	
6	06-02-2021	10.30am - 11.30am	A	I	Linkage and crossing over.	06-02-2021	

Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
7	08-02-2021	09.30am-10.30am	B	I	Linkage and crossing over.	08-02-2021	
8	10-02-2021	08.30am-09.30am	D	I	Linkage and crossing over.	10-02-2021	
9	10-02-2021	11.30am-12.30pm	D	I	Localization of DNA in chromosome	10-02-2021	
10	11-02-2021	08.30am-09.30am	E	I	Localization of DNA in chromosome	11-02-2021	
11	15-02-2021	10.30am-11.30am	A	I	Gene mapping	15-02-2021	
12	16-02-2021	09.30am-10.30am	B	I	Gene mapping	16-02-2021	
13	18-02-2021	08.30am-09.30am	D	I	Extra nuclear DNA	18-02-2021	
14	19-02-2021	08.30am-09.30am	E	I	DNA in mitochondria and plastid	19-02-2021	
15	23-02-2021	09.30am-10.30am	B	I	DNA in mitochondria and plastid	23-02-2021	
16	25-02-2021	08.30am-09.30am	D	I	Maternal effects and cytoplasmic inheritance	25-02-2021	
17	26-02-2021	08.30am-09.30am	E	I	Maternal effects and cytoplasmic inheritance	26-02-2021	
18	01-03-2021	10.30am - 11.30am	A	II	Cistron, recon and muton	01-03-2021	
19	08-03-2021	10.30am - 11.30am	A	II	DNA as the genetic material	08-03-2021	
20	09-03-2021	09.30am-10.30am	B	II	Regulation of gene expression in prokaryotes and eukaryotes	09-03-2021	
21	11-03-2021	08.30am-09.30am	D	II	Inherited genetic disorder in man-Syndromes, Colour blindness, Haemophilia	11-03-2021	

Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
22	11-03-2021	11.30am-12.30pm	D	II	Inherited genetic disorder in man-Syndromes, Colour blindness, Haemophilia	11-03-2021	
23	12-03-2021	08.30am-09.30am	E	II	Inborn Errors of metabolism- Sickle cell anaemia, albinism. phenylketonuria	12-03-2021	
24	13-03-2021	08.30am-09.30am	E	II	Inborn Errors of metabolism- Sickle cell anaemia, albinism. phenylketonuria	13-03-2021	
25	17-03-2021	09.30am-10.30am	B	III	Dominant gene, recessive gene	17-03-2021	
	19-03-2021	08.30am-09.30am	D	III	Sex linked and chromosomal genetic disorder	19-03-2021	
27	19-03-2021	11.30am-12.30pm	D	III	Huntington's chorea, cystic fibrosis	19-03-2021	
28	23-03-2021	10.30am - 11.30am	A	III	Thalassemia, muscular dystrophy	23-03-2021	
29	24-03-2021	09.30am-10.30am	B	III	Tay Sac's disease	24-03-2021	
30	26-03-2021	08.30am-09.30am	D	III	Screening for genetic disorders	26-03-2021	
31	26-03-2021	11.30am-12.30pm	D	III	Amniocentesis chorionic villus sampling	26-03-2021	
32	27-03-2021	08.30am-09.30am	E	III	Fetoscopy, Gene therapy	27-03-2021	
33	31-03-2021	10.30am - 11.30am	A	IV	Origin and evolution of prokaryotes and eukaryotes	31-03-2021	


[A. Mohaideen]

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[M.I. Delighta Mano Joyce]

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