SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)
Rahmath Nagar, Tirunelveli - 627 011
Lesson Plan
Academic Year 2020-2021|Odd Semester|
Department:

Class	:	B.Sc ZOOLOGY
Semester	:	V
Name of the Faculty	:	DR.M.SITHI JAMEELA
Title of the Course	:	Genetics
Subject Code	:	18UCZO52

Sl. No	Date	Order	Unit	Topics Planned	Topics Covered on
1	9.8.2020	A	I	Mendelian laws.	9.8.20
2	11.8.2020	C	I	Mendelian laws.	11.8.20
3	12.8.2020	D	I	Multiple alleles - A, B, O blood groups, Rh	12.8.20
4	13.8.2020	E	I	Multiple alleles - A, B, O blood groups, Rh	13.8.20
5	16.8.2020	F	I	Phenotypic ratio -Co-dominance	16.8.20
6	17.8.2020	A	I	Phenotypic ratio -Co-dominance	17.8.20
7	19.8.2020	C	I	Rh factors in man.,	19.8.20

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Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on
8	23.8.2020	D	I	Multiple genes - skin colour in man..	23.8.20
9	24.8.2020	E	I	Phenotypic ratio -Co-dominance	24.8.20
10	25.8.2020	F	I	Phenotypic ratio -Co-dominance	25.8.20
11	26.8.2020	A	I	Incomplete dominance.	26.8.20
12	31.8.2020	C	I	lethal genes,	31.8.20
13	1.9.2020	D	I	Penetrance Expressivity and pleiotropism	1.9.20
14	2.9.2020	E	I	Penetrance Expressivity and pleiotropism.	2.9.20
15	3.9.2020	F	I	Linkage,	3.9.20
16	4.9.2020	A	I	Crossing over	4.9.20
17	7.9.2020	C	II	Sex determination in man, sex chomosomes	7.9.20
18	8.9.2020	D	II	sex linked inheritance in man,	8.9.20
19	9.9.2020	E	II	sex linked inheritance in man,	9.9.20
20	13.9.2020	F	II	sex limited genes, sex influenced genes	13.9.20
21	14.9.2020	A	II	nondisjunction in man (Klinefelter's syndrome,	14.9.20
22	16.9.2020	C	II	Turner's syndrome,	16.9.20

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Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on
23	17.9.2020	D	II	Down's syndrome	17.9.20
24	18.9.2020	E	II	Y linked inheritance – Holandric genes	18.9.20
25	20.9.2020	F	II	Y linked inheritance – Holandric genes	20.9.20
26	21.9.2020	A	II	Extra chromosomal inheritance	21.9.20
27	23.9.2020	C	II	Shell coiling in Snail	23.9.20
28	24.9.2020	D	II	Kappa particles in Paramecium.	24.9.20
29	27.9.2020	E	III	Pedigree analysis	27.9.2020
30	28.9.2020	F	III	Pedigree analysis	28.9.2020
31	29.9.2020	A	III	Human Chromosomes - Karyotype, ideogram,	29.9.2020
32	1.10.2020	C	III	Human Chromosomes - Karyotype, ideogram,	1.10.2020
33	4.10.2020	D	III	Human metabolic disorders and diseases- Phenylketonuria	4.10.2020
34	5.10.2020	E	III	Genetic counselling	5.10.2020
35	6.10.2020	F	III	Albinism	6.10.2020
36	7.10.2020	A	III	Sickle cell anaemia	7.10.2020

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Sl. No	Actual Date	Order	Unit	Topics Planned	Date-Topics Covered on
37	11.10.2020	C	III	Alkaptonuria	11.10.2020
38	12.10.2020	D	III	Thalassemia	12.10.2020
39	13.10.2020	E	III	One gene, one enzyme theory.	13.10.2020
40	20.10.2020	F	III	Inbreeding	20.10.20
41	21.10.2020	A	III	Outbreeding	21.10.20
42	23.10.2020	C	III	Euthenics	23.10.20
43	25.10.2020	D	III	Eugenics	25.10.20
44	26.10.2020	E	III	Twins – types	26.10.20
45	27.10.2020	F	III	Twins – types	27.10.20
46	28.10.2020	A	III	Twins significance	28.10.20
47	30.10.2020	C	IV	Fine structure of gene – Cistron,Recon and Muton.)	30.10.20
48	1.11.2020	D	IV	Fine structure of gene – Cistron,Recon and Muton.)	1.11.20
49	2.11.2020	E	IV	Gene Mutation – types	2.11.20
50	3.11.2020	F	IV	Gene Mutation – types and effects	3.11.20
51	8.11.2020	A	IV	Deletion, Duplication,	8.11.20
52	10.11.2020	C	IV	Inversion and Translocation	10.11.20
53	11.11.2020	D	IV	Chronic Myeloid Leukemia	11.11.20

54	12.11.2020	E	IV	deletion ("cry of cat" syndrome),	12.11.20
55	15.11.2020	F	IV	Chromosomal mutation	15.11.20
56	16.11.2020	A	IV	Ploidy	16.11.20
57	18.11.2020	C	IV	Euploidy	18.11.20
58	19.11.2020	D	IV	Polyploidy	19.11.20
59	20.11.2020	E	IV	Aneuploidy	20.11.20
60	22.11.2020	F	IV	Aneuploidy	22.11.20
61	23.11.2020	A	IV	Chromosomal aberration - Structural aspects	23.11.20
62	25.11.2020	C	IV	Chromosomal aberration - Structural aspects	25.11.20
63	26.11.2020	D	V	Bacterial genetics	26.11.20
64	29.11.2020	E	V	Conjugation	29.11.20
65	30.11.2020	F	V	Conjugation	30.11.20
66	1.12.2020	A	V	Transformation	1.12.20
67	3.12.2020	C	V	Transduction	3.12.20
68	4.12.2020	D	V	Sexduction	4.12.20
69	6.12.2020	E	V	Sexduction	6.12.20
70	7.12.2020	F	V	Mapping of Bacterial chromosome.	7.12.20

2020-21 ODD

71	8.12.2020	A	V	Viral Genetics	8.12.20
72	10.12.2020	C	V	Viral Genetics	10.12.20
73	13.12.2020	D	V	T_4Phage - Lytic	13.12.20
74	14.12.2020	E	V	lysogenic cycle	14.12.20
75	15.12.2020	F	V	lysogenic cycle	15.12.20

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SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)
Rahmath Nagar, Tirunelveli - 627 011
Online-Class Lesson Plan
Academic Year 2020-2021|Odd Semester|
Department: ZOOLOGY(UG)

Class	:	III-B.Sc (Zoology)
Semester	:	V
Name of the Faculty	:	Dr.S.MohamedRamlathSabura
Title of the Course	:	AQUACULTURE (Theory)
Subject Code	:	18UEZO5A
ICT Tools used	:	Google Classroom, Power point,
Text books	:	Sandhu, G.S. 2010. A text book of fish and Fisheries of India. Wisdom Press, New Delhi M.Arumugam,Saras Publications,
Reference books	:	Jhingran, V.G. Fish and fisheries of India. Hindustan Publishing Corporation (India), Delhi
e-resources	:	Videos

Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
1	05.08.2020	9.30-10.20	B	I	Introduction to Aquaculture . Scope of Aquaculture	05.08.2020	
2	07.08.2020	9.30-10.20	D	I	Aquaculture in India	07.08.2020	
3	08.08.2020	10.30-11.20	E	I	Freshwater aquaculture -	08.08.2020	
4	08.08.2020	11.30-12.20	E	I	Coastal aquaculture	08.08.2020	
5	13.08.2020	9.30-10.20	B	I	Marine aquaculture	13.08.2020	
6	17.08.2020	9.30-10.20	D	I	Preparation of ponds	17.08.2020	
7	18.08.2020	10.30-11.20	E	I	Pond construction	18.08.2020	

Sl. No	Actual EDate	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
8	18.08.2020	11.30-12.20	E	I	Maintenance of pond -	18.08.2020	
9	21.08.2020	9.30-10.20	B	I	Maintenance of pond - Types of fish ponds-	21.08.2020	
10	25.08.2020	9.30-10.20	D	I	Features of Nursery pond	25.08.2020	
11	26.08.2020	10.30-11.20	E	I	Features of Rearing pond	26.08.2020	
12	26.08.2020	11.30-12.20	E	I	Features of culture pond.	26.08.2020	
13	31.08.2020	9.30-10.20	B	II	Biology of Indian major carps , Fin fish culture	31.08.2020	
14	02.09.2020	9.30-10.20	D	II	Collection of seeds	02.09.2020	
15	03.09.2020	10.30-11.20	E	II	Transportation of seeds	03.09.2020	
16	03.09.2020	11.30-12.20	E	II	Natural breeding	03.09.2020	
17	07.09.2020	9.30-10.20	B	II	Induced breeding,	10.09.2020	I-CIA
18	09.09.2020	9.30-10.20	D	II	Marine prawn culture –Penaeus monodon	10.09.2020	I-CIA
19	10.09.2020	10.30-11.20	E	II	Transgenicfish production	14.09.2020	
20	10.09.2020	11.30-12.20	E	II	Cryopreservation.	16.09.2020	
21	14.09.2020	9.30-10.20	B	II	Ploidy, Induction	10.09.2020	
22	16.09.2020	9.30-10.20	D	II	Culture practices in Edible oyster	10.09.2020	

Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
23	17.09.2020	10.30-11.20	E	II	Collection of seeds	17.09.2020	
24	17.09.2020	11.30-12.20	E	II	Induced breeding in oysters	17.09.2020	
25	21.09.2020	9.30-10.20	B	III	Types of culture, Extensive culture	21.09.2020	
26	23.09.2020	9.30-10.20	D	III	Semi-intensive culture	23.09.2020	
27	24.09.2020	10.30-11.20	E	III	Intensive culture	24.09.2020	
28	24.09.2020	11.30-12.20	E	III	Monoculture, Polyculture	24.09.2020	
29	28.09.2020	9.30-10.20	B	III	Monosex culture	28.09.2020	
30	01.10.2020	9.30-10.20	D	III	Cage culture	01.10.2020	
31	03.10.2020	10.30-11.20	E	III	Pen culture	03.10.2020	
32	03.10.2020	11.30-12.20	E	III	Seaweed culture	03.10.2020	
33	07.10.2020	9.30-10.20	B	III	Integrated fish farming, Paddy cum fish culture	07.10.2020	
34	09.10.2020	9.30-10.20	D	III	Poultry cum fish culture	09.10.2020	
35	10.10.2020	10.30-11.20	E	III	Pig cum fish culture	10.10.2020	
36	10.10.2020	11.30-12.20	E	III	Sewage fed fish culture.	10.10.2020	

Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
37	14.10.2020	9.30-10.20	B	IV	Fish feed	14.10.2020	
38	16.10.2020	9.30-10.20	D	IV	Artificialfeedformulation , Need ,ingredients ratio	16.10.2020	
39	17.10.2020	10.30-11.20	E	IV	Square method– pellets preparation	17.10.2020	
40	17.10.2020	11.30-12.20	E	IV	Live feeds and their culture	17.10.2020	
[redacted]	21.10.2020	9.30-10.20	B	IV	Artemia culture, Rotifer culture.	29.10.2020	II-CIA
42	23.10.2020	9.30-10.20	D	IV	Seaweed culture	02.11.2020	II-CIA
43	24.10.2020	10.30-11.20	E	IV	Fish Diseases, Bacterial Diseases	02.11.2020	II-CIA
44	24.10.2020	11.30-12.20	E	IV	Viral Diseases	03.11.2020	II-CIA
45	29.10.2020	9.30-10.20	B	IV	Fungal Diseases	03.11.2020	
46	02.11.2020	9.30-10.20	D	IV	Ectoparasitic diseases	06.11.2020	
47	03.11.2020	10.30-11.20	E	IV	Endo-parasitic diseases	06.11.2020	
48	03.11.2020	11.30-12.20	E	IV	Nutritional deficiency diseases	09.11.2020	
49	06.11.2020	9.30-10.20	B	V	Methods of fish harvesting. Crafts used for inland and marine fisheries	09.11.2020	
50	09.11.2020	9.30-10.20	D	V	Kattumaram and Trawlers	10.11.2020	
51	10.11.2020	10.30-11.20	E	V	Gears used for inland and marine fisheries	10.11.2020	

Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
52	10.11.2020	11.30-12.20	E	V	Gill net and trap net	10.11.2020	
53	13.11.2020	9.30-10.20	B	V	Fish preservation	10.11.2020	
54	17.11.2020	9.30-10.20	D	V	High value products from processing waste– fishery products	13.11.2020	III-CIA
55	18.11.2020	10.30-11.20	E	V	role of government organizations-	13.11.2020	III-CIA
56	18.11.2020	11.30-12.20	E	V	CMFRI, CIFRI	[illegible]	III-CIA
57	21.11.2020	9.30-10.20	B	V	FFDA - CIFT	[illegible]	III-CIA
58	24.11.2020	9.30-10.20	D	V	CIFE - MPEDA	[illegible]	
59	25.11.2020	10.30-11.20	E	V	CIBA	[illegible]	
60	25.11.2020	11.30-12.20	E	V	Revision	[illegible]	

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SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)
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Online-Class Lesson Plan
Academic Year 2020-2021[Odd Semester]

Department: Botany

Class	:	II B.Sc. Zoology
Semester	:	III
Name of the Faculty	:	DR. M. Syed Ali Fathima
Title of the Course	:	Plant Diversity and Plant Pathology
Subject Code	:	18UABT31
ICT Tools used	:	Powerpoint presentation
Text books	:	Pandey B.P. 2001. College Botany vol. I Algae, fungi, lichens, bacteria, viruses, plant pathology , industrial microbiology and bryophyte. S. Chand & company lte, new delhi.
Reference books	:	Sethi. I.K. and Walia, s.K. 2011. Text book of fungi and their allies, macmillan publishers, Pvt.Ltd. Delhi
e-resources	:	

Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
1	4-08-2020	12.30-1.20	A	I	Algae- general characters of algae	4-08-2020	
2	5-08-2020	11.30.12.20	B	I	Structure- Sargassum	5-08-2020	
	7-08-2020	10.30-11.20	D	I	Sargassum- reproduction	7-08-2020	

4	10-08-2020	10.30-11.20	F	I	Sargassum - life cycle	10-08-2020
5	12-08-2020	12.30-1.20	A	I	Economic importance of algae	12-08-2020
6	13-08-2020	11.30.12.20	B	I	General characters of fungi	13-08-2020
7`	17-08-2020	10.30-11.20	D		Albugo – distribution, structure	17-08-2020

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2. Ms. Fathima

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	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
	19-8-2020	10.30-11.20	F	I	Albugo – reproduction	19-08-2020	
9	20-8-2020	12.30-1.20	A	I	Albugo – reproduction	20-08-2020	
10	21-8-2020	11.30.12.20	B	I	Albugo – life cycle	21-08-2020	
11	25-8-2020	10.30-11.20	D	I	Albugo – life cycle	25-08-2020	
12	27-8-2020	10.30-11.20	F	I	Economic importance of fungi	27-08-2020	
13	28-8-2020	12.30-1.20	A	II	Salient features of lichen	28-08-2020	
14	31-8-2020	11.30.12.20	B	II	Types of lichens- crustose	31-08-2020	
15	2-9-2020	10.30-11.20	D	II	Foliose, fruiticose	02-09-2020	
16	4-9-2020	10.30-11.20	F	II	Economic importance of lichen	4-09-2020	
17	5-9-2020	12.30-1.20	A	II	Bryophytes – salient features	5-9-2020	
18	7-9-2020	11.30.12.20	B	II	Marchantia- distribution, and structure	7-9-2020	
19	9-9-2020	10.30-11.20	D	II	Reproduction- marchantia	9-9-2020	
20	11-9-2020	10.30-11.20	F	II	Reproduction- marchantia	9-9-2020	
21	12-9-2020	12.30-1.20	A	II	Life cycle of marchantia	11-9-2020	
22	14-9-2020	11.30.12.20	B	II	Life cycle of marchantia	12-9-2020	

10-08-2020
12-08-2020

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2. M. Habib

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Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	
23	16-9-2020	10.30-11.20	D	II	Economic importance of bryophyte	14-9-2020	
24	18-9-2020	10.30-11.20	F	II	Economic importance of bryophyte	16-9-2020	
25	19-9-2020	12.30-1.20	A	III	Pteridophytes- salient features	16-9-2020	
26	21-9-2020	11.30.12.20	B	III	Lycopodium- structure,	18-9-2020	
27	23-9-2020	10.30-11.20	D	III	Lycopodium - reproduction	19-9-2020	
28	25-9-2020	10.30-11.20	F	III	Life cycle of Lycopodium	19-9-2020	
29	28-9-2020	12.30-1.20	A	III	Gymnosperms- salient features	21-9-2020	
30	29-9-2020	11.30.12.20	B	III	Pinus- structure	23-9-2020	
31	1-10-2020	10.30-11.20	D	III	Pinus- structure	23-9-2020	
32	5-10-2020	10.30-11.20	F	III	Reproduction of pinus	25-9-2020	
33	6-10-2020	12.30-1.20	A	III	Reproduction of pinus	28-9-2020	
34	7-10-2020	11.30.12.20	B	III	Life cycle of pinus	29-9-2020	
35	9-10-2020	10.30-11.20	D		Life cycle of pinus	29-9-2020	
36	12-10-2020	10.30-11.20	F		Economic importance of pinus	1-10-2020	

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Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
37	13-10-2020	12.30-1.20	A	IV	Brief account on classifications of plants	5-10-2020	
38	14-10-2020	11.30.12.20	B	IV	Altificial	6-10-2020	
39	16-10-2020	10.30-11.20	D	IV	Natural	6-10-2020	
40	19-10-2020	10.30-11.20	F	IV	Natural- bentham and hooker.	7-10-2020	
41	20-10-2020	12.30-1.20	A	IV	Phylogenetic	9-10-2020	
42	21-10-2020	11.30.12.20	B	IV	Rutaceae	12-10-2020	
43	23-10-2020	10.30-11.20	D	IV	Rutaceae	13-10-2020	
44	27-10-2020	10.30-11.20	F	IV	Asclepiadaceae	14-10-2020	
45	28-10-2020	12.30-1.20	A	IV	Asclepiadaceae	16-10-2020	
46	29-10-2020	11.30.12.20	B	IV	Euphorbiaceae	27-10-2020	
47	2-11-2020	10.30-11.20	D	IV	Euphorbiaceae	27-10-2020	

48	4-11-2020	10.30-11.20	F	IV	Poaceae	28-10-2020	
49	5-11-2020	12.30-1.20	A	V	Introduction to plant pathology	2-11-2020	
50	6-11-2020	11.30.12.20	B	V	Tikka disease of groundnut	02-11-2020	
51	9-11-2020	10.30-11.20	D	V	Tikka disease of groundnut	4-11-2020	

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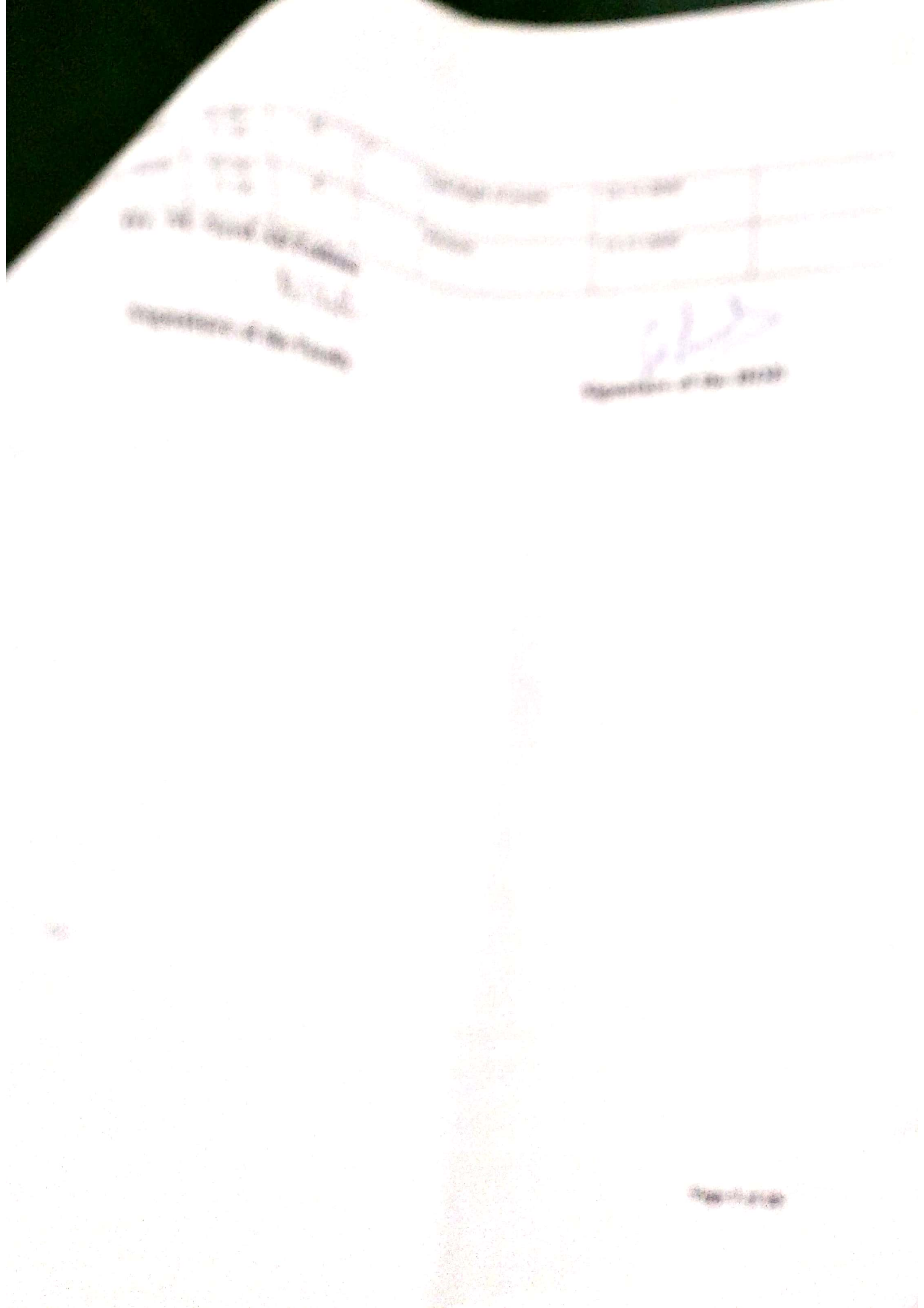
Sl. No	Actual Date	Time	Order	Unit	Topics Planned	Date-Topics Covered on	Remarks
52	11-11-2020	10.30-11.20	F	V	Citrus canker	5-11-2020	
53	12-11-2020	12.30-1.20	A	V	Citrus canker	5-11-2020	
54	13-11-2020	11.30.12.20	B	V	Bunchy top of banana	6-11-2020	
55	17-11-2020	10.30-11.20	D	V	Bunchy top of banana	6-11-2020	
56	19-11-2020	10.30-11.20	F	V	Red rot of sugarcane	9-11-2020	
57	20-11-2020	12.30-1.20	A	V	Red rot of sugarcane	11-11-2020	
58	21-11-2020	11.30.12.20	B	V	Late blight of potato	12-11-2020	



SADAKATHULLAH APPA COLLEGE, TIRUNELVELI - 627 011

LESSON PLAN & RECORD OF CLASSES ENGAGED Odd

Course : B.Sc
Title of the paper : Cell and molecular biology
Theory / Practical
Academic year :2020-2021
Class : II year
Semester : III
Subject Code : 18UCZO31

Sl.No	Date & Order	Unit	Topics Planned	Covered on
1.	05-08-2020& B	I	Cell biology – introduction	5-8-2020
2.	07-08-2020& D	I	Cell types - prokaryotic	7-8-2020
3.	10-08-2020& F	I	Cell types - prokaryotic	10-8-2020
4.	13-08-2020& B	I	Cell types – eukaryotic	13-8-2020
5.	17-08-2020 &D	I	Cell types – eukaryotic	17-8-2020
6.	19-08-2020 & F	I	Microscopy	19-8-2020
7.	21-08-2020& B	I	Detailed study of compound	21-8-2020
8.	25-08-2020 & D	I	Phase contrast	25-08-2020
9	27-08-2020 & F	I	Phase contrast	27-08-2020
10.	31-08-2020 & B	I	Electron microscopes – SEM	31-08-2020
11.	02-09-2020 &D	I	Electron microscopes – TEM	2-9-20
12	04-09-2020& F	I	Electron microscopes – TEM	4-9-2020
13	07-09-2020 & B	I	Simple staining	7-9-2020
14	09-09-2020& D	II	Cell organelles -plasma membrane	9-9-2020
15	11-09-2020& F	II	Mitochondria	11-9-2020
16	14-09-2020 & B	II	Golgi apparatus	14-9-2020
17	16-09-2020& D	II	Endoplasmic reticulum	16-09-2020

Prescribed Books:

Reference Books:

Activity	Total Number	Topic 1	Topic 2	Planned Date	Actual Date
Assignment	2				
Internal Test	2	1st Test Portion:	2nd Test Portion:		

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Note: Add separate sheets, if Guest Lectures, Seminars etc., are planned

Theory / Practical

Sl. No.	Date & Order	Unit	Topics Planned	Covered on
18	18-09-2020& F	II	Ribosomes	18-9-2020
19	21-09-2020 &B	II	Lysosomes	21-9-2020
20	23-09-2020& D	II	Centriole	23-9-2020
21	25-09-2020 & F	II	Nucleus	25-9-2020
22	29-09-2020& B	III	Nucleus	29-9-2020
23	01-10-2020 & D	III	Nucleolus	01-10-2020
24	05-10-2020 & F	III	Chromosomes and their types	05-10-2020
25	07-10-2020 & B	III	Chromosomes and their types	07-10-2020
26	09-10-2020& D	III	Chromosomes functions	09-10-2020
27	12-10-2020 & F	III	Chromosomes functions	12-10-2020
28	14-10-2020& B	III	Special type of chromosomes	14-10-2020
29	16-10-2020 & D	III	Cell division - cell cycle	16-10-2020
30	19-10-2020& F	III	Cell division - cell cycle	19-10-2020
31	21-10-2020 & B	III	Amitosis	21-10-2020
32	23-10-2020& D	III	Mitosis	23-10-2020
33	27-10-2020& F	III	Meiosis	27-10-2020
34	29-10-2020 & B	III	significance of meiosis &mitosis	29-10-2020
35	02-11-2020 & D	III	Apoptosis	2-11-2020
36	04-11-2020& F	V	Mechanism of protein synthesis	4-11-2020
37	06-11-2020 & B	V	Mechanism of protein synthesis	6-11-2020

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38	09-11-2020 & D	V	Genetic code	09-11-2020
39	11-11-2020& F	V	Codons and anti codons	11-11-2020
40	13-11-2020& B	V	regulation of gene expression prokaryotes	13-11-2020
41	17-11-2020 & D	V	regulation of gene expression eukaryotes	17-11-2020
42	19-11-2020 &F	V	lac - operon concept	19-11-2020
43	21-11-2020 & B	V	lac - operon concept	21-11-2020
44	24-11-2020 & D	V	Revision	24-11-2020
45	26-11-2020 & F	V	Revision	26-11-2020

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LESSON PLAN & RECORD OF CLASSES ENGAGED

Course : B.Sc zoology Academic year:2020-2021 Class:III year Semester: V

Title of the paper : Fundamentals of biotechnology Subject Code :18UCZO53

Theory / Practical

Sl. No.	Date & Order	Unit	Topics Planned	Topics Covered with date
1.	05.08.2020& B	II	Gene cloning : Integration of DNA fragments into the vector	5-8-2020
2	06.08.2020 & C	II	Gene cloning : Integration of DNA fragments into the vector	6-8-2020
3.	07.08.2020 & D	II	Transformation	7-8-2020
4.	08.08.2020 & E	II	gene transfer methods	8-8-2020
5.	13.08.2020& B	II	gene transfer methods	13-08-2020
6.	14.08.2020 & C	II	Biolistics transformation& protoplast fusion	14-8-2020
7.	17.08.2020 & D	II	Liposome mediated transfer	17-8-2020
8.	18.08.2020 & E	II	Electroporation & electrofusion	18-8-2020
9.	21.08.2020& B	II	Electroporation & electrofusion	21-8-2020
10.	24.08.2020 & C	II	DNA transfer by calcium phosphate method &microinjection	24-8-2020
11	25.08.2020& D	II	DNA transfer by calcium phosphate method &microinjection	25-8-2020
12.	26.08.2020& E	II	Screening and Selection of recombinants	26-8-2020
13	31.08.2020& B	II	DNA transfer by calcium phosphate method &microinjection	31-8-2020
14	01.09.2020 & C	II	Replica plating method & Blue and white method	1-9-2020

Prescribed Books: 1. Text book of Biotechnology - Sathyanarayanan.

2. Biotechnology - Kumaresan & Annamalai, Saras publication

Reference Books:

Activity	Total Number	Topic 1	Topic 2	Planned Date	Actual Date
Assignment	2				
Internal Test	2	1st Test Portion:	2nd Test Portion:		

Note: Add separate sheets, if Guest Lectures, Seminars etc., are planned

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Sl. No.	Date & Order	Unit	Topics Planned	Covered on
15	02.09.2020& D	II	DNA transfer by calcium phosphate method &microinjection	2-9-2020
16	03.09.2020 & E	II	Insertional inactivation method	3-9-2020
17	07.09.2020 & B	II	Antibiotic resistance	7-9-2020
18	08.09.2020 & C	II	Gradient method	8-09-2020
19	09.09.2020 & D	II	Hybridization techniques	9-9-2020
20	10.09.2020 & E	III	Animal cells culture: Cell types	10-9-2020
21	14.09.2020&B	III	DNA transfer by calcium phosphate method &microinjection	14-9-2020
22	15.09.2020 & C	III	Requirements for animal cell culture	15-9-2020
23	16.09.2020 & D	III	substrate, media and gases	16-9-2020
24	17.09.2020 & E	III	Cell culture techniques	17-9-2020
25	21.09.2020 & B	III	primary cell culture	21-9-2020
26	22.09.2020 & C	III	basic technique of mammalian cell culture	22-9-2020
27	23.09.2020& D	III	basic technique of mammalian cell culture	23-9-2020
28	24.09.2020 & E	III	sterilization and prevention of contamination	24-9-2020
29	29.09.2020 & B	III	Stem cell culture	29-9-2020
30	30.09.2020& C	III	Stem cell culture	30-9-2020
31	01.10.2020 & D	III	embryonic stem cell culture	1-10-2020
32	03.10.2020 & E	III	Methods to produce differentiated cells	3-10-2020
33	07.10.2020 & B	III	application of stem cells	7-10-2020
34	08.10.2020&C	III	application of stem cells	8-10-2020
35	09.10.2020& D	III	stem cell therapy	9-10-2020

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Sl. No.	Date & Order
36	10.10
37	
38	

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Sl. No.	Date & Order	Unit	Topics Planned	Covered on
36	10.10.2020&E	III	stem cell therapy	10-10-2020
37	14.10.2020 & B	IV	Somatic cell hybridization	14-10-2020
38	15.10.2020 & C	IV	Hybridoma technology	15-10-2020
39	16.10.2020& D	IV	Hybridoma technology	16-10-2020
40	17.10.2020 & E	IV	monoclonal antibody production	17-10-2020
41	21.10.2020 & B	IV	Hybridization technique	21-10-2020
42	22.10.2020 & C	IV	Blotting technique (Southern)	22-10-2020
43	23.10.2020 & D	IV	Blotting technique (Western)	23-10-2020
44	24.10.2020 & E	IV	Blotting technique (Northern)	24-10-2020
45	29.10.2020 & B	IV	DNA library	29-10-2020
46	31.10.2020&C	IV	DNA library	31-10-2020
47	02.11.2020 & D	IV	DNA probe	02-11-2020
48	03.11.2020 & E	IV	PCR	3-11-2020
49	06.11.2020& B	IV	PCR	6-11-2020
50	07.11.2020 & C	V	Technique of transgenic animal production	7-11-2020
51	09.11.2020 & D	V	applications of transgenic animals	9-11-2020
52	10.11.2020 & E	V	Transgenic sheep and fish	10-11-2020
53	13.11.2020 & B	V	Transgenic mosquito and cow	13-11-2020
54	16.11.2020 & C	V	Bioethics	16-11-2020
55	17.11.2020& D	V	Bioethics	17-11-2020
56	18.11.2020 &E	V	Bio safety and Patenting of Biotech product	18-11-2020

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Sl. No.	Date & Order	Unit	Topics Planned	Covered on
57	21.11.2020&B	V	Bio safety and Patenting of Biotech product	21-11-2020
58	23.11.2020 & C	V	IPR	23-11-2020
59	24.11.2020& D		Revision	24-11-2020
60	28.11.2020 B	V	Revision.	28-11-2020

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SADAKATHULLAH APPA COLLEGE (AUTONOMOUS)
Rahmath Nagar, Tirunelveli - 627 011
Offline / Online-Class Lesson Plan
Academic Year 2020-2021 [Odd Semester].

Department:

Class	:	III. B.Sc.,ZOOLOGY
Semester	:	V
Name of the Faculty	:	DR.S.PEER MOHAMED
Title of the Course	:	ANIMAL PHYSIOLOGY
Subject Code	:	18UCZO51
ICT Tools used	:	–
Text books	:	Text Book of Zoology – Saras Publication.
Reference books	:	Arora M.P. Animal Physiology.
e-resources	:	PPT

Sl. No	Actual Date	Order/ Hour	Unit	Topics Planned	Date-Topics Covered on	Remarks
1	4.8.20	A	I	Elements of nutrition	4.8.20	
2	6.8.20	C	I	Elements of nutrition.	6.8.20	
3	6.8.20	C	I	Vitamins & minerals	6.8.20	
4	8.8.20	E	I	Vitamin A and its role.	8.8.20	
5	10.8.20	F	I	Vitamin A and its role.	10.8.20	
6	10.8.20	F	I	Vitamin D and its role	10.8.20	
7	12.8.20	A	I	Vitamin E & K and its role.	12.8.20	
8	14.8.20	C	I	Vitamin B and its role.	14.8.20	
9	14.8.20	C			14.8.20	

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Sl. No	Actual Date	Order/ Hour	Unit	Topics Planned	Date-Topics Covered on	Remarks
10	18.8.20	E	I	Vitamin C and its role	18.8.20	1.
11	19.8.20	F	I	Digestion of Carbohydrate	19.8.20	
12	19.8.20	F	I	Digestion of Protein.	19.8.20	
13	20.8.20	A	I	Digestion of Fat.	20.8.20	
14	24.8.20	C	I	Gastrointestinal Hormone	24.8.20	
15	24.8.20	C	II	Types of Respiratory Organ	24.8.20	
16	26.8.20	E	II	Respiratory organs	26.8.20	
17	27.8.20	F	II	Respiratory Pigments	27.8.20	
18	27.8.20	F	II	Respiratory Pigments	27.8.20	
19	28.8.20	A	II	Transport of gases	28.8.20	
20	1.9.20	C	II	Transport of gases.	1.9.20	
21	1.9.20	C	II	Control of Respiration	1.9.20	
22	3.9.20	E	II	Control of Respiration.	3.9.20	
23	4.9.20	F	II	Anaerobiosis.	4.9.20	
24	4.9.20	F	II	Respiratory Quotient.	4.9.20	
25	5.9.20	A	II	Basic metabolism.	5.9.20	
26	8.9.20	C	II	Blood – composition	8.9.20	
27	8.9.20	C	II	Functional Coagulation	8.9.20	
28	10.9.20	E		of Blood.	10.9.20	

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Sl. No	Actual Date	Order/ Hour	Unit	Topics Planned	Date-Topics Covered on	Remarks
29	11.9.20	F	II	Structure of Human heart	11.9.20	
30	11.9.20	F	II	Function of Human heart.	11.9.20	
31	12.9.20	A	II	ECG and its Significance.	12.9.20	
32	15.9.20	C	II	Heart diseases.	15.9.20	
33	15.9.20	C	III	Nitrogenous Wastes.	15.9.20	
34	17.9.20	E	III	Ammonotelism	17.9.20	
35	18.9.20	F	III	Ureotelism and uricotelism.	18.9.20	
36	18.9.20	F	III	Homeostasis of osmolality.	18.9.20	
37	19.9.20	A	III	Structure of human kidney	19.9.20	
38	22.9.20	C	III	Structure of human kidney	22.9.20	
39	22.9.20	C	III	Function of human kidney	22.9.20	
40	24.9.20	E	III	Physiology of Urine formation	24.9.20	
41	25.9.20	F	III	Osmoregulation Aspects	25.9.20	
42	25.9.20	F	III	Osmoregulation in fishes.	25.9.20	
43	28.9.20	A	III	Osmoregulation in marine teleost.	28.9.20	
44	30.9.20	C	III	Osmoregulation in freshwater teleost.	30.9.20	
46	30.9.20	C	III	Mechanism of Thermoregulation.	30.9.20	
47	3.10.20	E	III	Mechanism of Thermoregulation.	3.10.20	

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Sl. No	Actual Date	Order/ Hour	Unit	Topics Planned	Date-Topics Covered on	Remarks
48	5.10.20	F	III	Mechanism of Thermoregulation	5.10.20	
49	5.10.20	F	III	Thermoregulation in Ectotherms	5.10.20	
50	6.10.20	A	III	Thermoregulation in Ectotherms	6.10.20	
51	8.10.20	C	III	Thermoregulation in Endotherms	8.10.20	
52	8.10.20	C	III	Thermoregulation in Endotherms	8.10.20	
53	10.10.20	E	III	Homeregulation in Poikilotherms	10.10.20	
54	12.10.20	F	III	Homeregulation in Poikilotherms	12.10.20	
55	12.10.20	F	IV	Types of muscles.	12.10.20.	
56	13.10.20	A	IV	Structure of Skeletal muscles.	12.10.20	
57	15.10.20	C	IV	Skeletal Muscles	15.10.20	
58	15.10.20	C	IV	Ultrastructure of Skeletal muscle	15.10.20	
59	17.10.20	E	IV	Physical Properties of Muscle.	17.10.20	
60	19.10.20	F	IV	Physical Properties of Muscle	19.10.20	
61	19.10.20	F	IV	Chemical Properties of Muscles	19.10.20	
62	20.10.20	A	IV	Chemical Properties of muscles	20.10.20	
63	22.10.20	C	IV	Mechanism of Muscle Contraction	22.10.20	
64	22.10.20	C	IV	Mechanism of Muscle Contraction	22.10.20	

65	24.10.20	E	IV	Structure of Neurons.	24.10.20	
66	27.10.20	F	IV	Structure of Neurons.	27.10.20	
67	27.10.20	F	IV	Types of Neurons.	27.10.20	
68	28.10.20	A	IV	Types of Neurons.	28.10.20	
69	31.10.20	C	IV	Nerve Impulse.	31.10.20	
70	31.10.20	C	IV	Conduction of nerve impulse.	31.10.20	
71	3.11.20	E	IV	Myoneural junction.	3.11.20	
72	4.11.20	F	IV	Myoneural junction.	4.11.20	
73	4.11.20	F	IV	Reflex action.	4.11.20	
74	5.11.20	A	V	Endocrine Glands.	5.11.20	
75	7.11.20	C	V	Pituitary Gland	7.11.20	
76	7.11.20	C	V	Pituitary Gland.	7.11.20	
77	10.11.20	E	V	Thyroid and Parathyroid Gland	10.11.20	
78	11.11.20	F	V	Adrenal Gland	11.11.20	
79	11.11.20	F	V	Adrenal Gland	11.11.20	
80	23.11.20	C	V	Pancreas and Islets	23.11.20	
81	23.11.20	B	V	Menstrual Cycle.	23.11.20	
82	16.11.20	C	V	Oestrous Cycle.	16.11.20	
83	25.11.20	E	V	Role of Hormones.	25.11.20	
84	19.11.20	F	V	Menopause & Parturition	19.11.20	
85	19.11.20	F	V	Biological Rhythm.	19.11.20	

86	3.12.20	F	IV	Concept of Biological clock.	7.12.20	
87	3.12.20	F	V	Survey of Biological Rhythms.	3.12.20	
88	4.12.20	A		Revision	4.12.20	
89	7.12.20	C		Revision.		
90	7.12.20	C		Revision		

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