

Name and Designation of the Course Faculty : DR. BHUVANESHWARI SANTHARAN Ass. Prof

Department : BIOCHEMISTRY

Semester: I From : August 2022 to December 2023

Programme B.A. / B.Sc. / B.Com / M.Sc.,

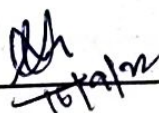
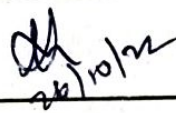
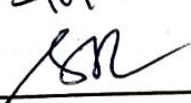
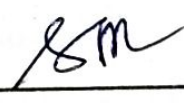
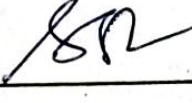
Course Code & Title CMBC11 Biomolecules (MAJOR)

Course Type (✓) : Project/ Practical / Theory - Core / Major ~~Elective~~ / Supportive / Allied /

Non-Major Elective / Language / Part - IV / V / Extra Credit.

Regulations : R - 2016 and onwards (www.msuniv.ac.in)

L	T	P	C

Sl No.	Internal Assessment Report	1	2	3
1	Assessment Date	9/9/22	19/10/22	23/11/22
2	Report Due on	15/9/22	25/10/22	30/11/22
3	Initial of the Course Faculty with Date	 10/9/22	 26/10/22	 2/12/22
4	Initial of the HOD	 SR	 SR	 SR

To be Signed at the end of the Semester :

Signature with Date	 10/12/22	
	Course Faculty	Head of the Department

RECORD OF CLASS WORK

Programme: BSc Biochemistry

Course: Biomolecules

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
1.	8/8/22	2	1	Introduction of Biochemistry	Sh
2.	9/8/22	6	1	Biomolecules - types - Micro & Macro	Sh
3.	10/8/22	1	1	Macromolecules types, functions	Sh
4.	11/8/22	3	1	Macromolecules types, functions	Sh
5.	13/8/22	3	1	Macromolecules - types function	Sh
6.	16/8/22	2	1	Macromolecules as building blocks	Sh
7.	18/8/22	1	1	Macromolecules as building blocks	Sh
8.	22/8/22	3	1	Biogenic molecules in living sys	Sh
9.	23/8/22	2	1	Common functional group, OH, SH, NH ₂	Sh
10.	25/8/22	1	1	Common functional group CHO, COOH, NH ₂	Sh
11.	26/8/22	3	1	Isomerism - Stereoisomers, Optical isomers	Sh
12.	27/8/22	6	1	Isomerism - Geometrical, & C ₂ axis	Sh
13.	30/8/22	1	1	Revision of the Overall Unit 1	Sh
14.	30/8/22	2	2	Classification of Carbohydrates	Sh
15.	30/8/22	6	2	Occurrence & biological importance	Sh
16.	31/8/22	1	2	Optical Activity, Ring form, Epimers	Sh
17.	31/8/22	3	2	Reducing and non-Reducing Sug	Sh
18.	6/9/22	3	2	Monosaccharide - Glucose, fructose	Sh
19.	7/9/22	2	-	I st Internal Exam	Sh
20.	9/9/22	1	-	I st Internal Exam	Sh
21.	10/9/22	3	2	Monosaccharide - Galactose, Ribose	Sh
22.	13/9/22	3	2	Disaccharide - Sucrose, Lactose, Maltose	Sh
23.	14/9/22	2	2	Structure, Source, Occurrence, Functions	Sh
24.	16/9/22	1	2	Polysaccharide - Homopolysaccharide	Sh
25.	20/9/22	3	2	Heteropolysaccharide - Same function	Sh
26.	21/9/22	2	2	Chemical reactions of Monosaccharide	Sh
27.	23/9/22	1	2	Reactions of Starch & Dextrin	Sh
28.	24/9/22	3	3	Definition & classification of Lipid	Sh
29.	27/9/22	3	3	Types of Fat - Saturated & Unsaturated	Sh
30.	30/9/22	1	3	Phospholipids - Cephalin, Lecithin, Sphingomyelin	Sh

RECORD OF CLASS WORK

Programme: BSc Biochemistry

Course: Biomolecules

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
31.	1/10/22	3	3	Glycolipids, Steroid lipids, Cholesterol	Sh
32.	6/10/22	3	3	Prostaglandins - Classification, Lipids	Sh
33.	7/10/22	2	3	Physical & chemical Properties of fat	Sh
34.	10/10/22	1	4	Classification of Amino acids	Sh
35.	11/10/22	3	4	Physical & chemical properties Amino acids	Sh
36.	13/10/22	3	4	Essential amino acids, Non-essential	Sh
37.	14/10/22	2	4	Internal Exam	Sh
38.	14/10/22	5	4	Functions of Proteins & Amino acids	Sh
39.	15/10/22	5	4	Classification of Protein with eg	Sh
40.	17/10/22	1	4	Internal Exam	Sh
41.	17/10/22	3	4	Structure of Proteins - Primary & Secondary	Sh
42.	18/10/22	3	4	Structure of Protein - 3 rd & 4 th	Sh
43.	20/10/22	3	4	Properties of Proteins	Sh
44.	21/10/22	2	4	Denaturation & Renaturation	Sh
45.	26/10/22	1	4	Chemical reactions of Amino acids	Sh
46.	26/10/22	3	4	Chemical reactions of Amino acids	Sh
47.	27/10/22	3	4	Primary Structure of Protein	Sh
48.	29/10/22	3	4	Secondary Structure of Protein	Sh
49.	31/10/22	2	4	Tertiary Structure of Protein	Sh
50.	1/11/22	1	4	Quaternary Structure of Protein	Sh
51.	2/11/22	5	4	Functions, Properties of Glycoproteins	Sh
52.	3/11/22	3	4	Functions, Properties of Lipoproteins	Sh
53.	5/11/22	3	5	Nucleic acid Introduction	Sh
54.	7/11/22	2	5	Components of Nucleic acid	Sh
55.	7/11/22	5	5	Nucleosides - Adenosine, Guanosine	Sh
56.	9/11/22	1	5	Nucleotides - ATP, CTP, TTP, UTP	Sh
57.	12/11/22	3	5	Structure of Purine bases	Sh
58.	14/11/22	2	5	Structure of Pyrimidine bases	Sh
59.	16/11/22	1	5	Formation of Phosphodiester bond	Sh
60.	17/11/22	3	5	Biological importance of Nucleic acid	Sh

Programme :

Course :

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Name and Designation of the Course Faculty : R. Sivasankar / Assistant Professor

Department : Biochemistry

Semester: III From : 25/7 202 to 30/11 2022

Programme B.A. / B.Sc. / B.Com / M.Sc., Biochemistry

Course Code & Title Physiology

Course Type (✓) : Project / Practical / Theory - Core / Major Elective / Supportive / Allied /

Non-Major Elective / Language / Part - IV / V / Extra Credit. Major

Regulations : R - 2016 and onwards (www.msuniv.ac.in)

L	T	P	C

Sl No.	Internal Assessment Report	1	2	3
1	Assessment Date	7/9/2022	17/10/2022	19/11/2022
2	Report Due on	25/9/2022	9/11/2022	10/12/2022
3	Initial of the Course Faculty with Date	<u>ly</u>	<u>ly</u>	<u>ly</u>
4	Initial of the HOD	<u>SSR</u>	<u>SSR</u>	<u>SSR</u>

To be Signed at the end of the Semester :

Signature with Date	<u>R. Sivasankar / 10/12/22</u>	<u>SSR</u> <u>8/12/22</u>
	Course Faculty	Head of the Department

RECORD OF CLASS WORK

Programme: B.sc Biochemistry

Course: Physiology

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
1	25/7/22	III	I	Syllabus given	ly
2	26/7/22	II	I	Discussion about overall units	ly
3	27/7/22	II	I	Blood - introduction	ly
4	28/7/22	I	I	Function of blood	ly
5	28/7/22	III	I	Composition of blood	ly
6	29/7/22	II	I	White Blood cells	ly
7	30/7/22	II	I	Red Blood cells	ly
8	31/7/22	II	I	Platelets	ly
9	1/8/22	II	I	Thrombocytes	ly
10	2/8/22	II	I	Blood grouping	ly
11	3/8/22	II	I	Blood clotting	ly
12	4/8/22	I	I	Intrinsic and extrinsic factors	ly
13	5/8/22	II	I	Mechanism of Blood clotting	ly
14	6/8/22	II	I	Structure of heart	ly
15	7/8/22	II	I	Cardiac cycle	ly
16	8/8/22	I	I	Cardiac output	ly
17	9/8/22	III	I	Function of heart	ly
18	10/8/22	II	I	Deficiency	ly
19	11/8/22	II	II	Structure of stomach	ly
20	12/8/22	I	II	Structure of small intestine	ly
21	13/8/22	III	II	Structure of gall bladder	ly
22	14/8/22	II	II	Composition of Salivary secretion	ly
23	15/8/22	II	II	Composition of pancreatic secretion	ly
24	16/8/22	I	II	Composition of gastric secretion	ly
25	17/8/22	III	II	Bile secretion	ly
26	18/8/22	II	II	Small intestinal secretion	ly
27	19/8/22	II	II	Large intestinal secretion	ly
28	20/8/22	I	II	Digestion & absorption of Carbohydrates	ly
29	21/8/22	III	II	Digestion & absorption of Proteins	ly
30	22/8/22	II	II	Digestion & absorption of Lipids	ly

RECORD OF CLASS WORK

Programme: B.sc Biochemistry

Course: Physiology

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
31	19/9/22	II	III	Structure of lungs	ly
32	20/9/22	I	III	O ₂ dissociation curve	ly
33	21/9/22	II	III	CO ₂ dissociation curve	ly
34	22/9/22	II	III	Transport of O ₂ in tissues	ly
35	23/9/22	II	III	Role of lungs in acid-base balance	ly
36	24/9/22	I	III	Dissociation of CO ₂ in tissues	ly
37	25/9/22	III	III	Structure of kidney	ly
38	26/9/22	III	III	Structure of Nephron	ly
39	27/9/22	II	III	Composition of Urine	ly
40	28/9/22	II	III	Formation of urine	ly
41	29/9/22	II	III	Renal threshold value	ly
42	30/9/22	I	III	Glomerular filtration rate	ly
43	1/10/22	III	III	Role of lungs in acid-base	ly
44	2/10/22	II	III	acid-base balance mechanism	ly
45	3/10/22	II	IV	Classification of bones	ly
46	4/10/22	I	IV	Location of bones	ly
47	5/10/22	III	IV	Gross anatomy of bones	ly
48	6/10/22	II	IV	Muscle attachment to bones	ly
49	7/10/22	II	IV	Muscle joints	ly
50	8/10/22	I	IV	bone joints	ly
51	9/10/22	III	IV	Classification of bones	ly
52	10/10/22	II	IV	Bones involved movements of muscles	ly
53	11/10/22	II	IV	Types of muscles	ly
54	12/10/22	I	IV	Movement from bones	ly
55	13/10/22	III	IV	Muscular contraction	ly
56	14/10/22	II	IV	Relaxation process	ly
57	15/10/22	II	IV	Central Nervous system	ly
58	16/10/22	I	IV	Peripheral Nervous system	ly
59	17/10/22	III	IV	Autonomic Nervous system	ly
60	18/10/22	II	IV	Structure of brain	ly

RECORD OF CLASS WORK
Programme : B.Sc Biochemistry

Course: Physiology.

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Name and Designation of the Course Faculty : Dr. Vishnu Varthini /
Assistant Professor

Department : Biochemistry /

Semester: V From : 25/7/22 202 to 25/11/22 202

Programme B.A. / B.Sc. / B.Com / M.Sc.,

Course Code & Title AMBC 52, Clinical Biochemistry

Course Type (✓) : Project/ Practical / Theory - Core / Major Elective/ Supportive / Allied /

Non- Major Elective / Language / Part - IV / V / Extra Credit.

L	T	P	C

Regulations : R - 2016 and onwards (www.msuniv.ac.in)

Sl No.	Internal Assessment Report	1	2	3
1	Assessment Date	08/09/22	18/10/22	22/11/22
2	Report Due on	27/09/22	26/10/22	5/12/22
3	Initial of the Course Faculty with Date	<u>27/9/22</u>	<u>26/10/22</u>	<u>5/12/22</u>
4	Initial of the HOD	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>

To be Signed at the end of the Semester :

Signature with Date	<u>27/12/22</u>	<u>27/12/22</u>
	Course Faculty	Head of the Department

RECORD OF CLASS WORK
Programme: BSc Biochemistry

Course: Clinical Biochemistry

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
1	25/7/22	2	1	Syllabus discussed	LH
2	26/7/22	5	1	Unit - I Disorder of carbohydrate metabolism discussed - Overview	LH
3	28/7/22	4	1	Post absorptive state, Post-prandial state	LH
4	29/7/22	5	1	Hypoe glycaemia, Hypoglycaemia	LH
5	29/7/22	1	1	Diabetes mellitus - Introduction	LH
6	29/7/22	4	1	Types of Diabetes mellitus	LH
7	30/7/22	1	1	Clinical features of Diabetes mellitus	LH
8	30/7/22	5	1	Complication of Diabetes mellitus	LH
9	1/8/22	2	1	Diagnosis of Diabetes mellitus	LH
10	1/8/22	3	1	Glucose Tolerance Test - An Introduction	LH
11	1/8/22	4	1	Types of GTT	LH
12	2/8/22	5	1	Implications of Diabetes Mellitus	LH
13	6/8/22	5	1	Glucose Tolerance curve - Revision	LH
14	8/8/22	2	1	Glycogen storage diseases	LH
15	9/8/22	5	1	Ketosis - Introduction & types	LH
16	11/8/22	4	2	Introduction to Unit - II	LH
17	12/8/22	4	2	Plasma lipids - Lipids Differentiation	LH
18	12/8/22	5	2	Types of lipoproteins	LH
19	14/8/22	2	2	Properties & functions of plasma lipids	LH
20	15/8/22	5	2	Classification of lipoproteins based on density	LH
21	19/8/22	4	2	Clinical disorders of lipoprotein deficiency	LH
22	20/8/22	4	2	Classification of lipoproteinemia	LH
23	22/8/22	5	2	Hyperlipoproteinemia - Types	LH
24	23/8/22	2	2	Hypo lipoproteinemia	LH
25	24/8/22	5	2	LCAT deficiency	LH
26	25/8/22	6	2	Class test - GTT	LH
27	26/8/22	4	1	Lipidosis - Gaucher's disease	LH
28	27/8/22	4	2	Fabry's disease & Tay Sachs disease	LH
29	29/8/22	6	2	Niemann Pick disease	LH

RECORD OF CLASS WORK
Programme: BSc Biochemistry

Course: Clinical Biochemistry

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
30	29/8/22	5	II	Atherosclerosis	LH
31	20/8/22	2	II	Revision - Gaucher's disease	LH
32	1/9/22	5	II	Revision - Tay Sachs disease	LH
33	2/9/22	4	II	Myocardial infarction - Clinical	LH
34	5/9/22	4	II	Fatty liver Types & consequences	LH
35	6/9/22	5	II	Revision - Internal exam	LH
36	7/9/22	2	-	T - Internal exam - PB	LH
37	10/9/22	3	3	Introduction to Unit - III	LH
38	12/9/22	5	3	Cephaluria - Definition, symptoms & treatment	LH
39	12/9/22	5	3	Phenyl ketonuria	LH
40	14/9/22	2	3	Maple syrup urine disease	LH
41	15/9/22	5	3	Revision Unit - 3 - topics	LH
42	16/9/22	4	-	Prework - Camp - Birth anniversary	LH
43	17/9/22	5	-	Camp - Birth anniversary	LH
44	20/9/22	5	3	Albinism - Disorder - Explanation	LH
45	21/9/22	2	3	Hartnup's disease - Discussed	LH
46	22/9/22	5	3	Wilson's disease - Clinical features	LH
47	24/9/22	4	3	Gout - Causes & Symptoms	LH
48	26/9/22	4	3	Hyperuricaemia - Consequences	LH
49	27/9/22	5	3	Hypouricaemia - Clinical features	LH
50	28/9/22	2	3	Proteinuria - Disorders of protein metabolism	LH
51	29/9/22	5	3	Fibrinogen & its functions	LH
52	1/10/22	4	3	Albumin / Globulin - Significance	LH
53	3/10/22	4	3	A/G ratio & Summing of Unit III	LH
54	6/10/22	5	4	Introduction - Function tests	LH
55	8/10/22	5	4	Jaundice - Briefing & its types	LH
56	11/10/22	4	4	Jaundice - Clinical features & diagnosis	LH
57	12/10/22	4	4	Liver function tests - Introduction	LH
58	13/10/22	3	1	Types of LFT - (i) discussed	LH
59	14/10/22	2	4	LFT types - (ii) discussed	LH

RECORD OF CLASS WORK

Programme: BSc Biochemistry

Course: Clinical Biochemistry.

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
60	18/10/22	5	4	Vandenberg test	Lr
61	21/10/22	2	4	Fouchet's test	Lr
62	22/10/22	5	4	Hay's test, Urshilinsgen.	Lr
63	27/10/22	4	4	Renal clearance - Urea, Uric acid	Lr
64	28/10/22	4	4	Creatininine - Renal blood flow	Lr
65	29/10/22	5	4	Pancreatic function tests	Lr
66	31/10/22	2	4	Revision of IFTs, RFTs.	Lr
67	1/11/22	5	5	Intro to enzymes in diagnosis.	Lr
68	3/11/22	4	5	Iso enzymes - Types.	Lr
69	4/11/22	4	5	Characteristics of iso enzymes	Lr
70	5/11/22	5	5	LDH in diagnosis & significance	Lr
71	7/11/22	2	5	CPK - clinical importance	Lr
72	8/11/22	5	5	AST, ALT, ALP, AP - Briefing.	Lr
73	9/11/22	5	5	Choline esterase, amylase, lipase	Lr
74	10/11/22	4	5	Electrophoretic pattern of enzymes	Lr
75	11/11/22	4	5	Electrophoretic pattern in myocardial infarction	Lr
76	12/11/22	5	5	Enzymes in liver & muscular disease	Lr
77	19/11/22	5	5	Summing up of unit-5.	Lr
78	21/11/22	2	-	Internal exam	Lr
79	22/11/22	5	-	Discussion of University Question Papers.	Lr
80	24/11/22	4	-	MCA's discussion for all units	Lr
81	25/11/22	4	-	Overall glimpse about CB for exam	Lr
				S.Sushant Singh Inven.	