

Signature with Date		
	Course Faculty	Head of the Department

RECORD OF CLASS WORK
Programme: BSc Biochemistry

Course: Metabolism

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
1	19/6/23	IV		Basic Introduction of Metabolism	Sh
2	20/6/23	IV		Cellular Respiration	Sh
3	22/6/23	I	I	Anabolic, Catabolic Amphibolic	Sh
4	25/6/23	I	I	Oxidative phosphorylation + Substrate	Sh
5	27/6/23	IV	I	Law of Thermodynamics	Sh
6	30/6/23	I	I	Concepts of free energy	Sh
7	1/7/23	IV	I	Pathway, Enzyme, Substrate	Sh
8	4/7/23	IV	I	Endogenous & Exogenous reactions	Sh
9	5/7/23	IV	I	High energy P ₄ compounds	Sh
10	7/7/23	I	I	Electron transport chain	Sh
11	8/7/23	IV	I	Inhibitors of ETC, Oxidative	Sh
12	12/7/23	I	I	Chemiosmotic theory, P.O.D. ratio	Sh
13	11/7/23	I	II	Gate of pyruvate (alcohol)	Sh
14	12/7/23	IV	II	Glycolysis, Pathway & enzyme	Sh
15	14/7/23	I	II	Pyruvate dehydrogenase complex	Sh
16	15/7/23	IV	II	Citric cycle & significance	Sh
17	17/7/23	I	II	Citric acid cycle & enzymes	Sh
18	18/7/23	IV	II	Citric Acid Cycle	Sh
19	19/7/23	IV	II	Pentose phosphate Pathway	Sh
20	21/7/23	IV	II	HMP & its significance	Sh
21	22/7/23	IV	II	Gluconeogenesis & its significance	Sh
22	25/7/23	IV	II	1st Internal (personality)	Sh
23	31/7/23	I	II	Gluconeogenesis	Sh
24	1/8/23	IV	II	Metabolism of Glycogen	Sh
25	2/8/23	IV	II	1st Internal	Sh
26	4/8/23	I	II	Glycogenesis	Sh
27	5/8/23	IV	II	Glycogenolysis	Sh
28	7/8/23	I	II	class test	Sh
29	8/8/23	IV	II	Types of fatty acids	Sh
30	9/8/23	IV	II		Sh

RECORD OF CLASS WORK
Programme: BSc Biochemistry

Course: Metabolism

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
31	12/8/23	IV	II	Structure of Lipids, Phospholipids	Sh
32	14/8/23	I	II	Biosynthesis of palmitic acid	Sh
33	15/8/23	IV	II	Biosynthesis of palmitic acid	Sh
34	17/8/23	IV	II	Fatty acid Synthesis Complex	Sh
35	19/8/23	I	II	Biosynthesis of cholesterol & water	Sh
36	21/8/23	IV	II	Biosynthesis of palmitoleic acid	Sh
37	22/8/23	I	II	β -oxidation of fatty acid	Sh
38	23/8/23	IV	II	Fatty acid oxidation	Sh
39	24/8/23	IV	II	Transport of fatty acid	Sh
40	25/8/23	IV	II	Metabolism of TAG	Sh
41	28/8/23	I	II	Metabolism of TAG	Sh
42	30/8/23	IV	II	Metabolism of phospholipids	Sh
43	31/8/23	IV	II	Metabolism of phospholipids	Sh
44	2/9/23	I	II	Cholesterol metabolism	Sh
45	4/9/23	IV	II	Regulation of cholesterol metabolism	Sh
46	5/9/23	I	II	Ketone bodies synthesis	Sh
47	6/9/23	IV	II	Ketogenesis	Sh
48	7/9/23	IV	II	Ketolysis	Sh
49	9/9/23	I	II	Final test	Sh
50	11/9/23	IV	IV	Amino acid Structure	Sh
51	12/9/23	I	IV	Basic Principles of Amino acids	Sh
52	13/9/23	IV	IV	General exam - Transamination	Sh
53	14/9/23	IV	IV	General exam - Oxidation decarboxylation	Sh
54	15/9/23	I	IV	General exam - Decarboxylation	Sh
55	19/9/23	IV	IV	class test	Sh
56	20/9/23	I	IV	class test	Sh
57	21/9/23	IV	IV	Metabolism of lysine	Sh
58	22/9/23	IV	IV	Metabolism of Tyrosine	Sh
59	25/9/23	I	IV	1st internal (personality)	Sh
60	26/9/23	IV	IV	Albion Mouthwash	Sh

RECORD OF CLASS WORK NUTRITIONAL BIOCHEMISTRY
Programme: BSc I Biochemistry

Course: I SEM (Theory)

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
1	9/6/23	I	-	General Introduction of Students	Sh
2	9/6/23	II	-	Employment opportunities for BSc Biochemists	Sh
3	9/6/23	II	-	Post Graduate opportunities for BSc Biochemists	Sh
4	9/6/23	III	I	Basic Concepts of Food - Introduction	Sh
5	9/6/23	IV	I	Basic Concepts of Nutrition	Sh
6	9/6/23	I	I	Basic Food groups - Energy yielding	Sh
7	9/6/23	II	I	Body building & Functional Foods	Sh
8	9/7/23	II	I	Modules of Energy	Sh
9	9/7/23	III	I	Caloric & Nutritive value of Food	Sh
10	9/7/23	IV	I	Measurement of Caloric by Bomb Calorimeter	Sh
11	9/7/23	I	I	Basal Metabolic Rate	Sh
12	9/7/23	II	I	Factors affecting BMR	Sh
13	11/7/23	III	I	Respiratory quotient (RQ) of Nutrients	Sh
14	11/7/23	IV	I	Factors affecting RQ	Sh
15	15/7/23	I	I	Stoichiometric Action of Food - Introduction	Sh
16	15/7/23	II	I	Determination of SDA	Sh
17	15/7/23	III	I	Anthropometric Measurements & Indices	Sh
18	15/7/23	IV	I	Body Mass Index - Introduction	Sh
19	15/7/23	I	II	Physiological & Nutritional Significance of CHO	Sh
20	15/7/23	II	II	Physiological & Nutritional Significance of Protein	Sh
21	15/7/23	III	II	Physiological & Nutritional Significance of Lipid	Sh
22	15/7/23	IV	II	Evaluation of Proteins by nitrogen balance test	Sh
23	15/7/23	I	II	Biological value of proteins - Digestibility	Sh
24	15/7/23	II	II	Protein Energy Ratio - Introduction	Sh
25	15/7/23	III	II	Net Protein Utilization (NPU)	Sh
26	15/7/23	IV	II	Protein Energy Malnutrition - Introduction	Sh
27	15/7/23	I	II	Questionnaire & Malnutrition	Sh
28	15/7/23	II	II	Types of obesity & preventive measures	Sh
29	15/7/23	III	II	Balanced Diet - Introduction	Sh
30	15/7/23	IV	II	Examples of Low & high cost balanced diet for Infants	Sh

RECORD OF CLASS WORK NUTRITIONAL BIOCHEMISTRY
Programme: BSc I Biochemistry

Course: I SEM (Theory)

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
31	9/6/23	IV	II	Low & High Cost Balanced diet for children	Sh
32	9/6/23	I	II	Balanced Diet for adolescents, adults & elderly	Sh
33	9/6/23	II	II	Balanced Diet for Elderly People	Sh
34	9/6/23	III	II	Tissue Classification of Food Groups	Sh
35	9/6/23	IV	II	ICMR Classification & Significance of Food	Sh
36	9/6/23	I	II	Food Pyramids	Sh
37	9/6/23	II	II	Junk Foods & its adverse effects	Sh
38	9/6/23	III	II	Structure of Food additives	Sh
39	9/6/23	IV	II	Chemistry of Food additives	Sh
40	9/6/23	I	II	Emulsifying Agents	Sh
41	9/6/23	II	II	Buffering Agents	Sh
42	9/6/23	III	II	Stabilizing Agents	Sh
43	9/6/23	IV	II	Natural & Artificial Sweeteners	Sh
44	9/6/23	I	II	Blending Agents	Sh
45	9/6/23	II	II	Starch Modifiers	Sh
46	9/6/23	III	II	Food additives act as antimicrobial	Sh
47	9/6/23	IV	II	Food Emulsions	Sh
48	9/6/23	I	II	Fat replacers	Sh
49	9/6/23	II	II	Viscosity & Gelling Agents	Sh
50	9/6/23	III	II	Nutritive Agents & Food colors	Sh
51	9/6/23	IV	II	Food Colors (Continued)	Sh
52	9/6/23	I	II	Food Flavors & Anticaking agent	Sh
53	9/6/23	II	II	Antioxidants - Introduction	Sh
54	9/6/23	III	II	Safety Assessment of food as additives	Sh
55	9/6/23	IV	II	Introduction of Nutraceuticals & Functional Foods	Sh
56	9/6/23	I	II	Food Supplements & Diet	Sh
57	9/6/23	II	II	Probiotics - Applications	Sh
58	9/6/23	III	II	Prebiotics - Applications	Sh
59	9/6/23	IV	II	Food as a Medicine	Sh
60	9/6/23	I	II	Food as a Medicine (Continued)	Sh

Name and Designation of the Course Faculty : DR. S. NANDAGOPAL & ASSISTANT PROFESSOR

Department : Biochemistry

Semester: I From : June 2023 to Nov 2023

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

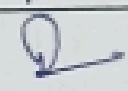
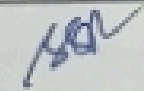
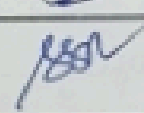
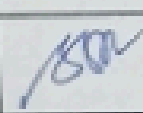
Subject Code & Title Nutritional Biochemistry

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

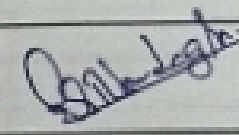
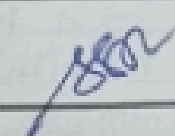
Non-Major Elective / Language / Part - IV / V / Extra Credit.

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

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Sl No.	Internal Assessment Report	1	2	3
1	Assessment Date	9/8/23	26/9/23	14/11/23
2	Report Due on	8/9/23	14/10/23	18/11/23
3	Initial of the Course Faculty with Date			
4	Initial of the HOD			

To be Signed at the end of the Semester :

Signature with Date		
	Course Faculty	Head of the Department

Name and Designation of the Course Faculty : Dr. P. Muralidhar, Assistant Professor

Department : Biochemistry

Semester: From : June 2023 to November 2024

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

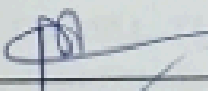
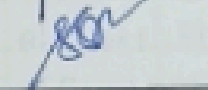
Subject Code & Title CMBC316 Anatomy and physiology

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

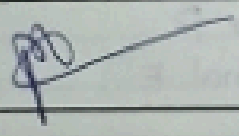
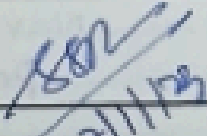
Non- Major Elective / Language / Part - IV / V / Extra Credit.

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

L	T	P	C
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Sl No.	Internal Assessment Report	1	2	3
1	Assessment Date	7/8/23	25/9/23	14/11/23
2	Report Due on	8/9/23	16/10/23	20/11/23
3	Initial of the Course Faculty with Date			
4	Initial of the HOD			

To be Signed at the end of the Semester :

Signature with Date		
	Course Faculty	Head of the Department

RECORD OF CLASS WORK

Programme: B.Sc

Course: Biochemistry

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
1	21.6.23	9		Brief introduction of physiology	PD
2	22.6.23	2	I	Blood and circulatory system	PD
3	23.6.23	5	I	Composition of blood and fluids	PD
4	24.6.23	3	I	Plasma proteins and functions	PD
5	25.6.23	3	I	ABO and Rh systems	PD
6	26.6.23	2	I	Blood clotting factors	PD
7	1.7.23	5	I	Structure of heart and blood vessels	PD
8	3.7.23	3	I	blood vessel and both	PD
9	6.7.23	3	I	Cardiac cycle and pressure	PD
10	7.7.23	2	I	heart sound and heart rate	PD
11	8.7.23	5	I	Gastrointestinal system	PD
12	10.7.23	3	I	GI tract and salivary gland	PD
13	13.7.23	3	I	Small intestine and large	PD
14	14.7.23	2	I	Salivary amylase and gastric	PD
15	15.7.23	5	I	pancreatic and bile secretion	PD
16	17.7.23	3	I	Digestion and absorption	PD
17	20.7.23	3	I	Calves, proteins and lipids	PD
18	21.7.23	2	I	I and II unit revision	PD
19	22.7.23	5	I	External questions discussion	PD
20	24.7.23	3	II	Respiratory & excretory system	PD
21	27.7.23	3	II	Diffusion of CO ₂ and O ₂	PD
22	28.7.23	2	II	oxygen dissociation curve	PD
23	29.7.23	5	II	Hill's plot	PD
24	31.7.23	3	II	structure of kidney	PD
25	3.8.23	3	II	structure of nephrons	PD
26	4.8.23	2	II	I internal NME	PD
27	5.8.23	5	III	Formation of urea	PD
28	7.8.23	3	III	Renal threshold	PD
29	10.8.23	3	III	Glomerular filtration rate	PD
30	11.8.23	2	III	Role of lungs	PD

RECORD OF CLASS WORK

Programme: B.Sc

Course: Biochemistry

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
31	12.8.23	5	III	Role of kidneys	PD
32	14.8.23	3	III	Maintenance of acid base	PD
33	18.8.23	3	IV	Muscle skeletal system	PD
34	19.8.23	2	IV	classification of bones	PD
35	21.8.23	5	IV	classification of muscles	PD
36	22.8.23	3	IV	Muscle attachment to bone	PD
37	25.8.23	3	IV	Other features of bone	PD
38	26.8.23	2	IV	parts of muscle and bone	PD
39	28.8.23	5	IV	Tissue and classification	PD
40	29.8.23	3	IV	Muscle types	PD
41	1.9.23	3	IV	Muscle and contraction	PD
42	2.9.23	2	IV	Muscle relaxation	PD
43	4.9.23	5	IV	III and IV unit revision	PD
44	5.9.23	3	V	Nervous system	PD
45	9.9.23	5	V	central nervous system	PD
46	9.9.23	2	V	external questions discussion	PD
47	11.9.23	5	V	Peripheral nervous system	PD
48	12.9.23	3	V	Autonomic nervous system	PD
49	15.9.23	3	V	differentiation CNS and PNS	PD
50	16.9.23	4	V	structure of brain	PD
51	19.9.23	5	V	importance of brain	PD
52	20.9.23	4	V	Nann Nuthalvan online	PD
53	22.9.23	5	V	structure of cerebellum	PD
54	25.9.23	2	V	Nann Nuthalvan online	PD
55	26.9.23	5	V	Important questions	PD
56	27.9.23	3	V	Nann Nuthalvan online	PD
57	30.9.23	3	V	Cranial nerves functions	PD
58	1.10.23	5	V	Nann Nuthalvan online	PD
59	5.10.23	3	V	Brief notes degeneration	PD
60	9.10.23	3	V	importance and applications	PD