

Name and Designation of the Course Faculty : Dr. S. SUBBURNIALU

Department : BIOCHEMISTRY

Semester: From : Nov 27/12/2023 to April 03/05/24 202

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

Subject Code & Title CMB62 Endocrine 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)

L	T	P	C
4	0	0	4

Sl No.	Internal Assessment Report	1	2	3
1	Assessment Date	21/2/2024	14/3/24	13.4.24
2	Report Due on	26/2/24	19/3/24	16.4.24
3	Initial of the Course Faculty with Date	<u>SM</u> 26/2	<u>SM</u> 19/3	<u>SM</u> 17/4
4	Initial of the HOD	<u>SM</u>	<u>SM</u>	<u>SM</u>

To be Signed at the end of the Semester :

Signature with Date	<u>SM</u>	<u>SM</u>
	Course Faculty	Head of the Department

RECORD OF CLASS WORK
Programme : BSc Biochemistry

Course :

Hormones in Health & Diseases.

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
1	27/1/24	I	I	Introduction to Endocrine glands	sn
2	28/1/24	II	I	Hormones - Definition	sn
3	30/1/24	I	I	Classification of Hormones	sn
4	3/2/24	II	I	Mechanism of action of Hormone	sn
5	4/2/24	II	I	Group - I Hormones	sn
6	5/2/24	III	I	Group - II Hormones	sn
7	8/2/24	I	I	Hormone receptors	sn
8	10/2/24	II	I	Structural features of Regulation	sn
9	11/2/24	II	I	Role of secondary messengers	sn
10	12/2/24	III	I	Role of cAMP	sn
11	18/2/24	I	I	Role of Calcium	sn
12	20/2/24	II	I	Role of cGMP, PKG	sn
13	22/2/24	II	I	Conclusion on Endocrine glands	sn
14	28/2/24	III	II	Hypothalamus and Pituitary hormones	sn
15	29/2/24	I	III	Structure & Biological action of	sn
16	30/2/24	II	IV	and Regulation of Hypothalamic	sn
17	31/2/24	II	IV	Releasing factors.	sn
18	1/3/24	III	IV	Vasopressin & oxytocin.	sn
19	3/3/24	I	IV	Biochemistry, Secretion, Tx, Reg. of FSH & LH	sn
20	6/3/24	II	IV	" " " " " TSH	sn
21	7/3/24	II	IV	" " " " " ACTH	sn
22	8/3/24	III	IV	Prolactin - Bio. Sec. Reg. Tx. Bio-action	sn
23	10/3/24	I	IV	Hyperactivity of Pituitary glands	sn
24	13/3/24	II	IV	Hypoactivity of " "	sn
25	14/3/24	II	IV	Acromegaly, Dwarfism	sn
26	15/3/24	III	IV	Di. Insipidus & Dwarfism.	sn
27	16/3/24	I	IV	Thyroid & Para thyroid hormones	sn
28	20/3/24	II	IV	Thyroid Hormone - Introduction	sn
29	21/3/24	II	IV	Thyroid Hormone: Secretion, Transport	sn
30	22/3/24	III	IV	Regulation, and Biological effects of	sn

thyroid hormone

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Name and Designation of the Course Faculty : Dr. S. Subburayalu

Department : Biochemistry

Semester: Even From : Nov. 27.12.2023 to Apr 30th 03.05.24 2023

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

Subject Code & Title Enzyme Techniques.

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	13/4/24	-	-
2	Report Due on	15/4/24	-	-
3	Initial of the Course Faculty with Date	15/4/24	-	-
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: BSc Biochemistry

Course: Practical on Enzyme Activities

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
1	21/12/24	I		Enzyme kinetics of Amylase	sn
		II		Effect of pH	
2	19/1/24	I		" "	sn
		II		" "	
3	29/1/24	I		Effect of Temperature (Amylase)	sn
		II		" "	
4	5/2/24	I		Effect of Substrate Concentration	sn
		II		" " of Amylase	
5	12	I		Effect of Enzyme Concentration	sn
		II		of Amylase	
6	19	I		Effect of Substrate Concentration	sn
		II		of Amylase	
7	26	I		Determination of K_m of	sn
		II		Amylase	
8	4/3/24	I		Determination of specific	sn
		II		activity of Hexokinase in liver	
9	11/3/24	I		Determination of Hexokinase	sn
		II		in Liver	
10	18/3/24	I		Determination of Glucose-6-phosphate	sn
		II		in Liver	
11	25/3/24	I		Determination of Aspartate in	sn
		II		Liver	
12	10/3/24	I		Determination of pH of	sn
		II		Amylase	
		I			
13	13/4/24	I		Determination of substrate	sn
		II		(Model Exam) Concentration	
				MSU	
14	26/4	I		Model Examination - Effect	sn
		II		pH & Substrate Concentration	

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Name and Designation of the Course Faculty : Dr. P. Muneeswari, Assistant Prof.

Department : Biochemistry

Semester: From : ^{27.12.23} ~~December 2023~~ to ^{03.05.24} ~~April 2024~~

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

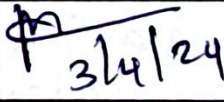
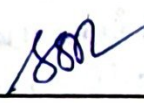
Subject Code & Title CMBL41 & Enzymes

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	21.2.24	15.3.24	20.4.24
2	Report Due on	3/4/24	4/5/24	9/5/24
3	Initial of the Course Faculty with Date	 3/4/24	 3/4/24	 4/5/24
4	Initial of the HOD			

To be Signed at the end of the Semester :

Signature with Date	 9/5/24	
	Course Faculty	Head of the Department

RECORD OF CLASS WORK

Programme : B.Sc Biochemistry

Course : Biochemistry

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
1	27.12.23	4		Briefly discuss about syllabus and introduction	PN
2	28.12.23	2	I	Basics of Enzyme activity and regulation	PN
3	29.12.23	3	I	Introduction of enzymes	PN
4	30.12.23	4	I	General characteristics of enzyme	PN
5	31.12.23	3	I	Enzymes Specificity	PN
6	1.1.24	4	I	definition with examples of holo enzyme	PN
7	5.1.24	2	I	definition with examples of apoenzyme	PN
8	8.1.24	1	I	definition with examples of holo enzyme	PN
9	12.1.24	4	I	definition with examples of inhibitors and activators	PN
10	13.1.24	2	I	definition International unit	PN
11	30.1.24	3	I	Definition of katal and enzyme turn over number and specificity	PN
12	22.1.24	4	I	Mechanism of enzyme action and active site	PN
13	23.1.24	2	II	Co factors and Multienzyme	PN
14	24.1.24	3	II	Role of cofactors NAD/NADP and FMN/FAD	PN
15	31.1.24	4	II	coenzyme A pyridoxal phosphate and tetra hydrofolate with example	PN
16	1.2.24	2	II	Mechanism of action chymotrypsin	PN

RECORD OF CLASS WORK

Programme : B.Sc

Course : Biochemistry

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
17	2.2.24	3	II	Mechanism of action of trypsin	PN
18	6.2.24	3	II	Multienzyme complex - Pyruvate dehydrogenase	PN
19	7.2.24	5	III	Enzyme kinetics	PN
20	13.2.24	3	III	Factor affecting enzyme, substrate concentration	PN
21	14.2.24	2	III	pH and temperature	PN
22	15.2.24	2	III	M-M equation	PN
23	20.2.24	3	III	Km and its significance	PN
24	21.2.24	4	III	Lineweaver Burk plot	PN
25	28.2.24	3	III	Michaelis Menten equation	PN
26	26.2.24	4	III	class test	PN
27	29.2.24	2	IV	Enzyme inhibition	PN
28	1.3.24	3	IV	Reversible inhibition	PN
29	5.3.24	3	IV	Irreversible inhibition	PN
30	6.3.24	4	IV	Competitive inhibition	PN
31	7.3.24	2	IV	Non-competitive inhibition	PN
32	8.3.24	3	IV	uncompetitive inhibition	PN
33	12.3.24	3	IV	Allosteric enzymes	PN
34	13.3.24	4	IV	class test	PN
35	14.3.24	2	IV	Factor affecting enzyme	PN
36	15.3.24	3	IV	unsubstrate reactions	PN
37	18.3.24	2	IV	Km and its significance	PN
38	19.3.24	3	IV	M-M equation	PN
39	20.3.24	4	IV	Allosteric enzymes	PN
40	21.3.24	2	V	General Mechanism of enzyme regulation	PN
41	22.3.24	3	V	Feedback inhibition	PN
42	26.3.24	3	V	Enzyme repression	PN
43	27.3.24	4	V	Enzymes Induction	PN
44	28.3.24	2	V		PN