

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

Department : BIOCHEMISTRY

Semester: VI From : JAN 2023 to MAY 2023

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

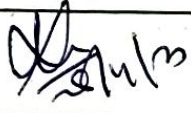
Course Code & Title AMBCP8 CLINICAL BIOCHEMISTRY PRACTICAL-II

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	24/4/23		
2	Report Due on	28/4/23		
3	Initial of the Course Faculty with Date	 24/4/23		
4	Initial of the HOD			

To be Signed at the end of the Semester :

Signature with Date	 24/4/23	
	Course Faculty	Head of the Department

Programme: Bsc Biochemistry

Course : Clinical Biochemistry
Practical - II

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
1,	11.01.23	01		General Introduction of Clinical Chemistry	SH
2,	11.01.23	02		Collection & Preservation of Urine	SH
3,	18.01.23	01		Estimation of Urea in Urine	SH
4,	18.01.23	02		Estimation of Creatinine in Urine	SH
5,	25.01.23	01		Estimation of Urea in Urine	SH
6,	25.01.23	02		Estimation of Creatinine in Urine	SH
7,	02.02.23	01		Estimation of Creatinine in Urine	SH
8,	02.02.23	02		Estimation of Creatinine in Urine	SH
9,	09.02.23	1, 2		Estimation of Phosphorus in Urine	SH
10,	16.02.23	1, 2		1 st Internal Examination	SH
11,	23.02.23	1, 2		Estimation of Calcium in Urine	SH
12,	09.03.23	1, 2		Final day Celebration	SH
13,	09.03.23	1, 2		Estimation of titratable Acidity	SH
14,	16.03.23	1, 2		Estimation of chloride in Urine	SH
15,	23.03.23	1, 2		Normal Constituents of Urine	SH
16,	30.03.23	1, 2		Normal Constituents of Urine	SH
17,	06.04.23	1, 2		Abnormal Constituents of Urine	SH
18,	13.04.23	1, 2		Abnormal Constituents of Urine	SH
19,	21.04.23	1, 2		College day Celebration	SH
20,	29.04.23	1, 2		Semester practical	SH
21,	08.04.23	1, 2		MCQ discussion Theory	SH

Name and Designation of the Course Faculty : R. Sivasankari (Asst-Professor)

Department : Biochemistry

Semester: VI From : 4/1 2023 to 12/5 2023

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

Course Code & Title Immunology

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	15/2/23	29/3/23	19/4/2023
2	Report Due on	14/3/23	18/4/23	8/5/2023
3	Initial of the Course Faculty with Date	4/14/3/23	4/18/4/23	4/8/5/2023
4	Initial of the HOD	1502	1502	82

To be Signed at the end of the Semester :

Signature with Date	<u>R. Sivasankari</u> 12/5/2023	<u>S. Suresh Kumar</u>
	Course Faculty	Head of the Department

RECORD OF CLASS WORK

Programme: B.Sc Biochemistry

Course: Immunochemistry

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
1.	5/1/23	V	I	Immunochemistry Syllabus	ly
2.	10/1/23	I	I	Overall syllabus & overview	ly
3.	17/1/23	II	I	Infection- Introduction	ly
4.	17/1/23	IV	I	Factors influencing infection	ly
5.	12/1/23	V	I	Pathogenicity	ly
6.	21/1/23	V	I	Sources and carriers of infectious agents	ly
7.	24/1/23	III	I	Immune system	ly
8.	24/1/23	IV	I	Definition & Properties	ly
9.	27/1/23	I	I	Cells of Immune system	ly
10.	30/1/23	V	I	Lymphoid organs	ly
11.	2/2/23	III	I	Structure & function	ly
12.	3/2/23	I	I	Types of Immunity	ly
13.	6/2/23	V	I	Innate Immunity	ly
14.	8/2/23	III	I	Acquired Immunity	ly
15.	8/2/23	IV	II	Antigens	ly
16.	10/2/23	I	II	Definition	ly
17.	13/2/23	V	II	Properties of Antigen	ly
18.	15/2/23	III	II	Antigenicity	ly
19.	15/2/23	IV	II	Immunogenic determinants	ly
20.	17/2/23	I	II	Haptens	ly
21.	21/2/23	V	II	Types of Antigens	ly
22.	22/2/23	III	II	Immunoglobulins	ly
23.	22/2/23	IV	II	Types of Igs	ly
24.	24/2/23	I	II	Classes of Igs	ly
25.	26/2/23	III	II	IgG	ly
26.	27/2/23	IV	II	IgA	ly
27.	28/2/23	I	II	IgD	ly
28.	3/3/23	I	II	IgE	ly
29.	6/3/23	V	II	IgM	ly

RECORD OF CLASS WORK

Programme: B.Sc Biochemistry

Course: Biochemistry

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
30.	8/3/23	III	III	Antigen-antibody interactions	ly
31.	8/3/23	IV	III	Molecular mechanism of binding	ly
32.	10/3/23	I	III	Affinity	ly
33.	12/3/23	V	III	Avidity	ly
34.	15/3/23	III	III	Valency	ly
35.	15/3/23	IV	III	Cross reactivity	ly
36.	17/3/23	I	III	Multivalent binding	ly
37.	20/3/23	V	III	Complement system	ly
38.	22/3/23	III	III	Complement Components	ly
39.	22/3/23	IV	III	Classical pathway	ly
40.	24/3/23	I	III	Alternative pathway	ly
41.	27/3/23	V	III	Antigen recognition	ly
42.	29/3/23	III	III	T Cell activation	ly
43.	29/3/23	IV	III	B Cell activation	ly
44.	31/3/23	I	III	Immunological memory	ly
45.	3/4/23	V	III	Lymphokines	ly
46.	05/4/23	III	III	Cytokines	ly
47.	05/4/23	IV	III	Mechanism of action	ly
48.	07/04/23	I	IV	Transplantation Immunology	ly
49.	10/4/23	V	IV	Tissue types	ly
50.	12/4/23	III	IV	Graft rejection	ly
51.	21/4/23	IV	IV	Role of MHC and T cells	ly
52.	15/4/23	I	IV	Prevention of graft rejection	ly
53.	15/4/23	I	IV	Hypersensitivity	ly
54.	18/4/23	V	IV	Immediate Hypersensitivity	ly
55.	20/4/23	III	IV	Delayed Hypersensitivity	ly
56.	20/4/23	IV	IV	Mechanism of reaction	ly
57.	24/4/23	I	IV	Immunisation practice	ly
58.	26/4/23	V	IV	Active Immunisation	ly
59.	28/4/23	III	IV	Passive Immunisation	ly

Programme :

Course :

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

Department : BIOCHEMISTRY

Semester: From : 5/11 2023 to 10/51 2023

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

Course Code & Title AMBC62 & 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

Sl No.	Internal Assessment Report	1	2	3
1	Assessment Date	14/2/23	25/3/23	18/4/23
2	Report Due on	21/2/23	6/4/23	2/5/23
3	Initial of the Course Faculty with Date	<u>SR</u> 21/2	<u>SR</u> 6/4/23	<u>SR</u> 2/5/23
4	Initial of the HOD	<u>SR</u> 21/2	<u>SR</u>	<u>SR</u>

To be Signed at the end of the Semester :

Signature with Date	<u>SR</u> 10/5/23	<u>SR</u> 10/5/23
	Course Faculty	Head of the Department

RECORD OF CLASS WORK

Programme: BSc

Endocrine
Course: Biochemistry

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
1.	5/1/23	IV	I	Hormones: Introduction, definition	SN
2	7/1/23	II	I	Hormones: Classification	SN
3	7/1/23	III	I	Hormones: Biosynthesis & Circulation	SN
4	9/1/23	IV	I	Hormones: Degradation	SN
5	9/1/23	V	I	Mechanism of action: Class 1	SN
6	10/1/23	III	I	Mechanism of action: "	SN
7	12/1/23	IV	I	Hormones: Mechan. class II	SN
8.	18/1/23	V	I	Explan on mechan. class II	SN
9.	19/1/23	I	I	Role of 2 nd messengers	SN
10.	19/1/23	II	I	Hormonal receptors: Structural features	SN
11	19/1/23	III	I	and Regulation	SN
12	5/1/23	IV	I	Role of feedback regulation	SN
13.	24/1/23	IV	I	Regulation of Hormonal action	SN
14.	25/1/23	V	II	Hypothalamic releasing factors	SN
15	27/1	IV	II	Vasopressin & Oxytocin	SN
16	30/1	IV	II	Biosyn. Tran. Biol. effects GH	SN
17.	01/2	II	II	FSH	SN
18.	2/2	V	II	" TSH	SN
19.	3/2	V	II	Biosyn. Tran. Biol. effects LH	SN
20.	8/2/23	III	II	" ACTH	SN
21.	9/2/23	III	II	" PRL	SN
22	10/2/23	IV	II	Hyperactivity of Pituitary	SN
23	13/2/23	II		I Internal	SN
24	15/2/23	II		"	SN
25	16/2/23	V		"	SN
26	17/2/23	III	II	Hypoactivity of Pituitary	SN
27	20/2/23	IV	II	Acromegaly & Dwarfism	SN
28	22/2/23	II	II	Diabetes insipidus	SN
29	23/2/23	V	II	Hypopituitarism	SN
30	24/2/23	III	II	Biosynthesis of Thyroid Hormones	SN

RECORD OF CLASS WORK

Programme: BSc

Endocrine
Course: Biochemistry

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
31	27/2	IV	III	Secretion & Transport	SN
32	28/2	II	III	Regulation & Biological effects	SN
33	1/3	II	III	Hyperthyroidism	SN
34	2/3	V	III	Anti-thyroid agents	SN
35	3/3	III	III	Role of PTH	SN
36	6/3	IV	III	Role of Calcitonin	SN
37	8/3	II	III	Role of Calcitriol	SN
38	9/3	V	III	Hormones of Cat, Phosphorus	SN
39	10/3	III	III	Hypoparathyroidism	SN
40	13/3	IV	III	Signs & Symptoms	SN
41	15/3	II	III	Hypoparathyroidism	SN
42	16/3	V	III	Role of PTH in General.	SN
43	17/3	V	IV	Introduction to pancreas	SN
44	20/3	IV	IV	Islets of Langerhans	SN
45	22/3	II	IV	Mechanism of action of P. Hormone	SN
46	23/3	V	IV	Insulin: Chemistry, Biol. action	SN
47	24/3	IV		II Internal	SN
48	27/3	IV		"	SN
49	29/3	II	IV	Glucagon: Chemistry, Biological.	SN
50	30/3	V	IV	Cells of pancreas	SN
51	01/4	III	IV	Discussion of B-cell.	SN
52	3/4	IV	IV	Mechanism of action of Somatostatin	SN
53	5/4	III	IV	" .. of pancreatic P-pe.	SN
54	6/4	V	IV	Insulin & Diabetes	SN
55	7/4	III	IV	Pathophysiology of Insulin	SN
56	10/4	IV	IV	Discussion of MCA	SN
57	12/4	II	IV	Overall Discussion on Endo. Biochem.	SN
58	13/4	V	V	Introduction of adrenal glands	SN
59	15/4	III	V	Hormones of Adrenal Cortex	SN
60	16/4	IV		II Internal	SN

RECORD OF CLASS WORK

Programme : BSc

Course : Endocrine Biochemistry

Sl. No.	Date	Period	Unit No.	Topics Covered	Initials
61	20/4/23	<u>II</u>		<u>Unit</u> Internal Exam	<u>SR</u>
62	21/4/23	<u>V</u>	<u>V</u>	Hormones of Adrenal medulla	<u>SR</u>
63	24/4/23	<u>IV</u>	<u>V</u>	Biological effects of Cortisol.	<u>SR</u>
64	26/4/23	<u>IV</u>	<u>V</u>	Biological effects epinephrine Nor.	<u>SR</u>
65	28/4/23	<u>II</u>	<u>V</u>	Biological effects of Antigen	<u>SR</u>
66	29/4/23	<u>V</u>	<u>V</u>	" " "	<u>SR</u>
67	21/5/23	<u>III</u>	<u>V</u>	Biological Action of antigen	<u>SR</u>
68	4/5/23	<u>IV</u>	<u>V</u>	Phases of Breiman cycle	<u>SR</u>
69	6/5/23	<u>II</u>	<u>V</u>	" " "	<u>SR</u>
70	8/5/23	<u>V</u>	<u>V</u>	Overall discussion of Endocrinology	<u>SR</u>
71	9/5/23	<u>III</u>	<u>V</u>	previous year Qtn discussion	<u>SR</u>
				Completed	
				S. Sushu Vagale	