

M.Sc., Biochemistry Semester System Credit System

SCHEME OF INSTRUCTION AND EXAMINATION

Paper No. Title of the Paper	Periods/ Week	No of Credits	Duration of Exam (hrs)	Max Marks
<u>I Semester:</u>				
<u>Theory</u>				
BC 1.1 Chemistry of Biomolecules	4	4	3	85
BC 1.2 Biochemical Techniques	4	4	3	85
BC 1.3 Physiology and Bioenergetics	4	4	3	85
BC 1.4 Enzymology	4	4	3	85
<u>*Practicals:</u>				
BC 1.5 Biochemical Techniques	12	2	6	85
BC 1.6 Enzymology	12	2	6	85
BC 1.7: Viva – Voce	--	1		25
Total marks for I Semester				----- <u>535 + 90* = 625</u>
<u>II Semester:</u>				
BC 2.1 Microbiology	4	4	3	85
BC 2.2 Cell Biology and Genetics	4	4	3	85
BC 2.3 Intermediary Metabolism	4	4	3	85
BC 2.4 Molecular Biology	4	4	3	85
<u>Practicals:</u>				
BC 2.5 Microbiology and Genetics	12	2	6	85
BC 2.6 Quantitative Analysis and Molecular Biology	12	2	6	85
BC 2.7 Viva-Voce	--	1		25
Total marks for II Semester				----- <u>535 + 90* = 625</u>
<u>III Semester:</u>				
BC 3.1 Plant Biochemistry and Human Nutrition	4	4	3	85
BC 3.2 Immunology	4	4	3	85
BC 3.3 Regulation of Gene Expression and Genetic Engineering	4	4	3	85
BC 3.4 Industrial Biotechnology	4	4	3	85
<u>*Practicals:</u>				
BC 3.5 Immunology and Food Analysis	12	2	6	85
BC 3.6 Biotechnology and Genetic Engineering	12	2	6	85
BC 3.7 Viva – Voce	--	1		25
Total marks for III Semester				----- <u>535 + 90* = 625</u>
<u>IV Semester:</u>				
BC 4.1 Clinical Biochemistry and Endocrinology	4	4	3	85
BC 4.2 Genomics, Proteomics and Bioinformatics	4	4	3	85
BC 4.3 Applied Biochemistry	4	4	3	85
<u>Practicals:</u>				
BC 4.4 Clinical Biochemistry and Bioinformatics	12	2	6	85
BC 4.5 Viva - Voce	--	1	--	25
BC 4.7 Project Work	--	4	--	200
Total marks for IV Semester				----- <u>565 + 60* = 625</u>
Grand Total for 4 Semesters				----- <u>2170 + 330 = 2500</u>

*Internal assessment component carries 15 marks for each theory and practical papers.

M.Sc., BIOCHEMISTRY SEMESTER SYSTEM

CREDIT SYSTEM

SCHEME OF INSTRUCTION AND EXAMINATION

Paper No.	Title of the Paper	Periods/ Week	No of Credits	Duration of Exam (hrs)	Max Marks
III Semester:					
BC 3.1	Plant Biochemistry and Human Nutrition	4	4	3	85
BC 3.2	Immunology	4	4	3	85
BC 3.3	Regulation of Gene Expression and Genetic Engineering	4	4	3	85
BC 3.4	Industrial Biotechnology	4	4	3	85
*Practicals:					
BC 3.5	Immunology and Food Analysis	12	2	6	85
BC 3.6	Biotechnology and Genetic Engineering	12	2	6	85
BC 3.7	Viva – Voce	--	1		25
Total marks for III Semester					535 + 90* = 625

*Internal assessment component carries 15 marks for each theory and practical papers.