



Bharatiya Vidya
Bhavan

Bhavan's Vivekananda College of Science, Humanities and Commerce,
Sainikpuri, Secunderabad-500094

Autonomous (Accredited with 'A' grade by NAAC)

M.Sc. Biochemistry Syllabus

(Effective from 2015-2016)

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SEMESTER I					
PAPERS	TITLE	Teaching hrs/week	Credits	Internal marks	Final exam marks
1	Paper-I BI 101T:Chemistry and Metabolism of Proteins, Lipids and Porphyrins	4	4	30	70
2	Paper-II BI 102T:Chemistry and Metabolism of Carbohydrates, Vitamins and Nucleic Acids	4	4	30	70
3	Paper-III BI 103T: Bio-Analytical Techniques	4	4	30	70
4	Paper-IV BI 104T:BioenergeticsAndCellBiology	4	4	30	70
5	BI105P: Amino acids and protein analysis	8	4	--	100
6	BI106P: Carbohydrate and lipid analysis	8	4	--	100
Total		32	24	120	480
SEMESTER II					
PAPERS	TITLE	Teaching hrs/week	Credits	Internal marks	Final exam marks
1	Paper-I:BI 201T:Enzymology	4	4	30	70
2	Paper-II:BI 202T:MolecularBiology	4	4	30	70
3	Paper-III:BI 203T:BiochemicalGeneticsAnd ModelOrganisms	4	4	30	70
4	Paper-IV: BI 204T: Computational methods and Cell study methods	4	4	30	70
5	Paper-V:BI205P:Enzymology and Biochemical preparations	8	4	--	100
6	Paper-VI:BI206P: Molecular Biology, Genetics and Computational Biology	8	4	--	100
Total		32	24	120	480
SEMESTER III					
PAPERS	TITLE	Teaching hrs/week	Credits	Internal marks	Final exam marks
1	Paper-I:BI 301T:Gene Regulation and Genetic Engineering	4	4	30	70
2	Paper-II:BI 302T:Immunology and Immunotechnology	4	4	30	70
3	Paper-III:BI 303T: Virology, Nutrition & Clinical Biochemistry.	4	4	30	70
4	Paper-IV:BI 304T:Cell-Cell Communication and Signal Transduction	4	4	30	70
5	Paper-V:BI 305P:RecombinantDNA and Immunotechnology	8	4	--	100
6	Paper-VI:BI 306P:Nutrition,ClinicalBiochemistry and Virology	8	4	--	100
Total		32	24	120	480
SEMESTER IV					
PAPERS	TITLE	Teaching hrs/week	Credits	Internal marks	Final exam marks
1	Paper-I:BI 401T:EndocrinologyandMetabolic Disorders	4	4	30	70
2	Paper-II:BI 402T:Bioinformatics	4	4	30	70
3	Paper-III:BI 403T:Biotechnology	4	4	30	70
4	Paper-IV:BI 404T:Physiology and Xenobiotics	4	4	30	70
5	Paper-V:BI 405P:Bioinformatics and Biotechnology	8	4	--	100
6	Paper-VI:BI 406P: Endocrinology, Physiology and Xenobiotics	8	4	--	100
Total		32	24	120	480

Srinivas
CHAIRMAN
Board of Studies in Biochemistry
Osmania University,
Secunderabad-500 007.

A. Sai Jadh
Head, Dept. of Bio-Chemistry
Bhavan's Vivekananda College
Sainikpuri, Secunderabad-500 094