

BHARATHIAR UNIVERSITY:: COIMBATORE – 641046
B.Sc. BIOCHEMISTRY WITH NANOTECHNOLOGY DEGREE COURSE
(For the students admitted during the academic year 2010 – 2011 only)

SCHEME OF EXAMINATIONS

Part	Study Components	Course title	Ins.	Examination			Credit	
				Dur. Hrs	CIA	Marks		Total Marks
Semester I								
I	Language – I		6	3	25	75	100	4
II	English – I		6	3	25	75	100	4
III	Core paper I - Biomolecules		4	3	25	75	100	4
	Core paper II – Cell biology		4	3	25	75	100	4
	Core Biochemistry Practical – I		2	-	-	-	-	-
	Allied A: Paper I – - Biomedical Instrumentations		6	3	20	55	75	3
IV	Environmental Studies #		2	3	-	50	50	2
Semester II								
I	Language – II		6	3	25	75	100	4
II	English – II		6	3	25	75	100	4
III	Core paper III – Basics of Nanoscience		5	3	25	75	100	4
	Core Biochemistry Practical – I		3	3	40	60	100	4
	Allied A: Paper II – Microbiology		5	3	20	55	75	3
	Allied Practical – Microbiology		3	3	20	30	50	2
IV	Value Education – Human Rights #		2	3	-	50	50	2
Semester III								
I	Language - III		6	3	25	75	100	4
II	English - III		6	3	25	75	100	4
III	Core paper IV – Enzyme and Enzyme Technology		4	3	25	75	100	4
	Core paper V – Introduction to Nanomaterials		3	3	25	75	100	4
	Core Biochemistry Practical – II		3	-	-	-	-	-
	Allied B: Paper I – Basic Mathematics		5	3	20	55	75	3
IV	Skill based subject I - Bioinformatics		3	3	20	55	75	3
	Tamil @ / Advanced Tamil# (OR) Non-major elective - I (Yoga for Human Excellence)# / Women's Rights#		2	3	50		50	2
Semester IV								
I	Languages – IV		6	3	25	75	100	4
II	English – IV		6	3	25	75	100	4
III	Core paper IV – Intermediary metabolism		4	3	25	75	100	4

	Core Biochemistry Practical – II	3	6	30	45	75	3
	Allied B: Paper II – Computer	4	3	20	55	75	3
	Practical - Computer	2	3	20	30	50	2
IV	Skill based Subject II - Basics of Information Technology	3	3	20	55	75	3
	Tamil @ /Advanced Tamil # (OR) Non-major elective -II (General Awareness #)	2	3	-	50	50	2
	Semester V						
III	Core paper VII – Human Physiology	4	3	25	75	100	4
	Core paper VIII – Clinical Biochemistry	4	3	25	75	100	4
	Core paper IX – Nanobiotechnology	4	3	25	75	100	4
	Core paper X – Plant Biochemistry	4	3	25	75	100	4
	Biochemistry Practical – III	4	-	-	-	-	-
	Biochemistry Practical – IV	4	-	-	-	-	-
	Elective – I	3	3	20	55	75	3
IV	Skill based subject III - Genomics and Proteomics	3	3	20	55	75	3
	Semester VI						
III	Core paper XI – Molecular Biology	4	3	25	75	100	4
	Core paper XII – Biomedical Applications of Nanomaterials	4	3	25	75	100	4
	Biochemistry Practical – III	5	6	30	45	75	3
	Biochemistry Practical – IV	5	6	30	45	75	3
	Elective II	3	3	20	55	75	3
	Elective III	3	3	20	55	75	3
IV	Skill based subject IV - Practical – I & II	6	6	30	45	75	3
V	Extension Activities @	-	-	50	-	50	2
	Total					3500	140

@ No University Examinations. Only Continuous Internal Assessment (CIA)

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List of Elective papers (Colleges can choose any one of the paper as electives)		
Elective – I	A	Immunology and Immunotechniques
	B	Medicinal Chemistry
	C	Nutritional Biochemistry
Elective – II	A	Plant and Animal Biotechnology
	B	Genetic engineering and Bioprocess technology
	C	Plant therapeutics
Elective - III	A	Diagnostic Biochemistry
	B	Sports Biochemistry
	C	Public Health and Hygiene