

SCHEME OF EXAMINATION

Subject Code	Subject	Hours of Instruction	Exam Duration (Hours)	Maximum Marks			Credit Points
				CA	CE	Total	
FIRST SEMESTER							
Part-A							
18PBTM101	Core I: Cell Biology	5	3	25	75	100	5
18PBTM102	Core II: Molecular biology	5	3	25	75	100	5
18PBTM103	Core III: Microbiology & Genetics	5	3	25	75	100	5
18PBTM104	Core IV: Biochemistry	5	3	25	75	100	5
18PBTM105	Core V: Developmental Biology	5	3	25	75	100	5
18PBTMP101	Core Practical I: Lab in Cell biology, Molecular biology, Genetics and Biochemistry	4	6	40	60	100	3
Non Credit							
18PLS101	Career competency Skills I	1	-	-	-	-	-
	Total	30				600	28
SECOND SEMESTER							
Part-A							
18PBTM201	Core VI: Immunology	5	3	25	75	100	5
18PBTM202	Core VII: Bioprocess Technology	5	3	25	75	100	5
	Elective I	5	3	25	75	100	4
18PBTMP201	Core Practical II: Lab in Bioprocess technology and Immunology	5	6	40	60	100	3

Optional Subjects							
18PBCBTI201	IDC I: Diagnostic Biochemistry	4	3	25	75	100	2
18PBCBTIP201	IDC Practical I: Diagnostic Biochemistry	3	3	40	60	100	2
18PMBBTI201	IDC I: Clinical Microbiology	4	3	25	75	100	2
18PMBBTIP201	IDC Practical I: Clinical Microbiology	3	3	40	60	100	2
Part- B							
18PVE201	Value Education: Human Rights	2	3	25	75	100	2
Non Credit							
18PLS201	Career competency Skills II	1	-	-	-	-	-
Total		30				700	23
THIRD SEMESTER							
Part -A							
18PBTM301	Core VIII: Plant tissue and Animal cell culture technology	6	3	25	75	100	5
18PBTM302	Core IX: Genetic engineering	6	3	25	75	100	5
18PBTM303	Core X: Biostatistics and Research Methodology	5	3	25	75	100	4
18PBTMP301	Core Practical III: Lab in Plant tissue and Animal cell culture technology and Genetic Engineering	5	6	40	60	100	4

M.Sc., Biotechnology (Students admitted from 2018-2019 onwards)

18PBTMP302	Core Practical IV: Statistical software	2	3	40	60	100	2
Optional Subjects							
18PBCBTI301	IDC II: Pharmaceutical Biochemistry	3	3	25	75	100	2
18PBCBTIP301	IDC Practical II: Pharmaceutical Biochemistry	3	3	40	60	100	2
18PMBBTI301	IDC II: Industrial Microbiology	3	3	25	75	100	2
18PMBBTIP301	IDC Practical II: Industrial Microbiology	3	3	40	60	100	2
	Total	30				700	24
FOURTH SEMESTER							
Part - A							
18PBTM401	Core XI: Food and Pharmaceutical Biotechnology	5	3	25	75	100	5
	Elective II	5	3	25	75	100	4
18PBTPR401	Project & Viva-Voce	4	-	50	150	200	6
	Total	14				400	15
Grand Total						2400	90

ELECTIVE COURSES

The department offers the following four subjects as Elective courses for second and fourth semesters.

S.No	Subject Code	Semester	Subject
1.	18PBTEL201	II	Cell communication and Signaling
2.	18PBTEL202		Bioinstrumentation and Bioinformatics
3.	18PBTEL401	IV	Environmental Biotechnology
4.	18PBTEL402		Evolution and Biodiversity

TOTAL CREDIT DISTRIBUTION

S.NO	PART	COMPONENTS	TOTAL NUMBER OF SUBJECTS	MAXIMUM MARKS	TOTAL MARKS	CREDIT POINTS
1.	PART - A	Core Subjects	11	100	1100	55
		Core Practical	4	100	400	11
		IDC Paper	2	100	200	04
		IDC Practical	2	100	200	04
		Elective Subject	2	100	200	08
		Project	1	200	200	06
2.	PART - B	Value Education	1	100	100	02
Total					2400	90