

M.Sc SYLLABUS IN BOTANY (Semester system), 2015
BETHUNE COLLEGE, KOLKATA

SEMESTER I

Theory				
	Group	Subject	Group Marks	Total Marks
Paper I	A	Phycology	30	60
	B	Microbiology	30	
Paper II	A	Mycology	30	60
	B	Plant Pathology	30	
Practical				
Paper III	A	Phycology	15	30 [25marks-Internal Exam +5 marks (Continuous Internal Assessment)]
	B	Microbiology	15	
Paper IV	A	Mycology	15	30 [25marks-Internal Exam +5 marks (Continuous Internal Assessment)]
	B	Plant Pathology	15	
Paper V		Grand Viva		20
TOTAL				200

SEMESTER II

Theory				
	Group	Subject	Group Marks	Total Marks
Paper VI	A	Bryophytes (20) Pteridophytes (20)	40	80
	B	Gymnosperm (20) Paleobotany and Palynology (20)	40	
Paper VII		Taxonomy of Angiosperms	45	45
Paper VIII	A	Plant Physiology	30	60
	B	Biochemistry	30	
Practical				
Paper IX	A	Bryophytes (10) Pteridophytes (10)	20	40 [35 marks-Internal Exam +5marks (Continuous Internal Assessment)]
	B	Gymnosperm (10) Paleobotany and Palynology (10)	20	
Paper X		Taxonomy of Angiosperms	25	25 [20 marks-Internal Exam +5marks (Continuous Internal Assessment)]
Paper XI	A	Plant Physiology	15	30 [25 marks-Internal Exam +5 marks (Continuous Internal Assessment)]
	B	Biochemistry	15	
Paper XII		Grand Viva		20
TOTAL				300

SEMESTER III

Theory				
	Group	Subject	Group Marks	Total Marks
Paper XIII	A	Cell Biology	30	60
	B	Genetics	30	
Paper XIV	A	Molecular Biology	25	50
	B	Plant Biotechnology	25	
Paper XV	A	Ecology	25	45
	B	Anatomy (10) and Pharmacognosy (10)	20	
Practical				
Paper XVI	A	Cell Biology	10	25 [20 marks-Internal Exam +5 marks (Continuous Internal Assessment)]
	B	Genetics	15	
Paper XVII	A	Molecular Biology	10	20 [15 marks-Internal Exam +5 marks (Continuous Internal Assessment)]
	B	Plant Biotechnology	10	
Paper XVIII	A	Ecology	10	20 [15 marks-Internal Exam +5 marks (Continuous Internal Assessment)]
	B	Anatomy and Pharmacognosy	10	
Paper XIX		Grand Viva		20
TOTAL				240

SEMESTER IV

Theory				
	Group	Subject	Group Marks	Total Marks
Paper XX	A	Plant Breeding (15) and Biometry (10)	25	45
	B	Instrumentation (15) and Computer Application (5)	20	
Paper XXI		Special paper		100
Practical				
Paper XXII		Plant Breeding and Biometry	15	15 [10 marks-Internal Exam +5 marks (Continuous Internal Assessment)]
Paper XXIII		Special paper		100
		A. Practical Examination	70	
		B. Review/Project Work and Seminar	20+10	
TOTAL				260

- For All Practical General papers Continuous Internal Assessment will be carried out by respective Internal Teachers
- Special papers:
 - Plant Physiology and Biochemistry
 - Cytogenetics and Genomics
 - Molecular Biology and Plant Biotechnology
 - Taxonomy of Angiosperms