## **M.Sc. BOTANY PRACTICAL EXAMINATION**

## M.Sc. (Previous) Practical Examination (Botany)

The practical examination of M.Sc. Previous shall be completed in two days

•	Day I - Based on Theory Paper I, II & III	M.M. 1	L20
•	Day II - Based on Theory Paper IV & V	M.M.	80

Day I	- Based on Theory Paper I, II & III Time-7:30 Hours	M.M. 120
1.	Fungal material (at least two); preparation and identification	16
2.	Algal material (at least 3 from a mixture); preparation and identification	on 15
3.	Bryophyte (one); preparation and identification	12
4.	Pteridophyte (one); detailed study, preparation and identification	12
5.	Gymnosperm (one); detailed study, preparation and identification	15
6.	Experiment based on Bacteria	06
7.	Comment upon spots 1-8	24
8.	Practical record, prepared slides and collection	10
9.	Viva-voce	10

Day II - Based on Theory Paper IV & V		Time-5:30 Hours	M.M. 80
1.	Experiment on Ecology		14
2.	Experiment on Soil Science		07
3.	Stages of mitosis		08
4.	Stages of meiosis		08
5.	Problem based on Bio-statistics		05
6.	Emasculation		05
7.	Comment upon spots 1-6		18
8.	Practical record, Collection etc.		15

#### M.Sc. (Final) Practical Examination (Botany)

There shall be two practical examinations in M.Sc. Final.

•	First Practical (General - Based on Theory Paper I, II, III & V)	M.M. 150
•	Second Practical (Special - Based on Theory Paper V)	M.M. 50

# FIRST PRACTICAL (General) Time - 9:00 Hours M.M. 150 (Based on Theory Paper I, II, III & IV)

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1.	Description and taxonomic position of angiospermic plant	10	
2.	Description and taxonomic position angiospermic flower	08	
3.	Histological preparation of angospermic plant (stem or leaf)	10	
4.	Embryology experiment	07	
5.	Microbiology experiment	10	
6.	Microtechnique experiment	10	
7.	Plant Physiology experiment	18	
8.	Biochemistry experiment	15	
9.	Viva-voce	10	
10	. Comment upon spots 1-10	30	
11	. Practical record, prepared slides and collection	12	
12	. Herbarium	10	

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# SECOND PRACTICAL (Special Paper) Time - 4 hours M.M. - 50 (Based on theory Paper V)

A-	Special Paper – Plant Pathology Practical Time - 4 Hours	M.M. 50
1.	Study of the host parasite relation of a pathogen	12
2.	Preparation, description and identification of a pathogen	10
3.	Preparation of culture medium or inoculation	05
4.	Comment upon spots 1-5	10
5.	Viva-voce	05
6.	Practical record and pathological collection	08

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	Special Paper – Plant Physiology Practical Time: 4 Hours	
1. 2.	Experiment on metabolism	15 12
2. 3.	Experiment on growth  Viva-voce	05
3. 4.	Comment upon spot 1-5	10
5.	Practical record	08
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C-	Special Paper – Forest Ecology Practical Time : 4 Hours	M.M. 50
1.	Forest vegetation and analysis	15
2.	Forest soil study	12
3.	Comment upon spot 1-5	10
4.	Viva-voce	05
5.	Practical record and Collections	08
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D-	Special Paper-Cytogenetics and Plant Breeding, Time:4 Hou	rs M.M. 50
1.	Preparation of a fixative or a stain	04
2.	Squash preparation for mitosis	04
3.	Smear preparation for meiosis	07
4.	Camera lucida drawing or preparation of tissue culture medium	04
5.	Emasculation technique	03
6.	Biostatistics, numerical problem and design	05
7.	Viva-voce	05
8.	Comment upon spot 1-5	10
9.	Practical record	08
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E-	Special Paper – Environmental Botany Time : 4 Hours	M.M. 50
1.	Experiment on practical exercise No. 1	11
2.	Experiment on practical exercise No. 2	08
3.	Experiment on practical exercise No. 3	08
4.	Comment upon spot 1-5	10
5.	Viva-voce	05
6.	Practical record	08