



Shivaji University, Kohapur
M.Sc. T D. (Botany)
Revised Syllabus
Implemented from June, 2006

Total Marks 1600

A) THEORY

M.Sc. Part – I

Total Theory Papers 1 to 8 (Eight)

Each paper of 100 marks

Total Theory marks $8 \times 100 = 800$ marks

M.Sc. Part – II

Total Theory Papers 9 to 16 (Eight)

Each paper of 100 marks

Total Theory marks $8 \times 100 = 800$ marks

Total Theory papers for M.Sc. I and II = 16

Total theory marks = 1600 marks

Each Theory paper includes two sections and each section carries 50 marks

B) SEMINARS

There will be four seminars, each of 50 marks two seminars will be conducted per year.

Total Marks for seminar will be 200

C) DISSERTATION – 500 Marks

D) VIVA-VOCE – 100 MARKS

M.Sc. Part – I (Theory)	800 Marks
M.Sc. Part – II (Theory)	800 Marks
Dissertation	500 Marks
Viva	100 Marks
Seminar	200 Marks
Grand Total	2400 Marks

M.Sc. (T. D.) Botany
Theory papers

Theory of M.Sc. (TD.) Botany is similar as theory of Regular M.Sc.
In M.Sc. (Botany) TD sixteen papers are there.

M.Sc. I

Paper 1 : Biology and Diversity of Algae, Bryophytes and Pteridophytes
(Regular M.Sc. Paper 1)

Paper 2 : Gymnosperms and Paleobotany (Regular M.Sc. Paper 7)

Paper 3 : Biology and Diversity of Fungi (Paper 2 of Regular M.Sc.)

Paper 4 : Plant Pathology (Paper 8 of Regular M.Sc.)

Paper 5 : Taxonomy of Angiosperms (Paper 5 of Regular M.Sc.)

Paper 6 : Plant Ecology (Paper 3 of Regular M.Sc.)

Paper 7 : Pre-requisite Course (Paper 4 of Regular M.Sc.)

Paper 8 : Cell and Molecular Biology of Plants (Paper 6 of Regular M.Sc.)

M.Sc. (T. D.) Botany Part – II

Paper 9 : Cytogenetics and Plant Breeding (Paper 9 of Regular M.Sc.)

Paper 10 : Biotechnology and Genetic Engineering of Plants and Microbes
(Paper 10 of Regular M.Sc.)

Paper 11 : Plant Structure, Development and reproduction
(Paper No. 14 of Regular M.Sc.)

Paper 12 : Plant Physiology and Metabolism (Paper No. 13 of Regular MSc.)

One Group of Paper 13, 14 and Paper 15, 16 out of following groups.

GROUP A

Paper 13 – Advanced Plant Physiology and Biochemistry (Regular Paper 11)

Paper 14 - Plant Growth and Development (Regular Paper 12)

Paper 15 – Crop Physiology (Regular Paper 15)

Paper 16 – Environmental Plant Physiology (Regular Paper 16)

GROUP B

Paper 13 – Taxonomy of Fungi (Regular Paper 11)

Paper 14 – Biology of Fungi (Regular Paper 12)

Paper 15 – Applied Mycology (Regular Paper 15)

Paper 16 – Industrial Mycology (Regular Paper 16)

GROUP C

Paper 13 – Molecular Genetics (Regular Paper 11)

Paper 14 – Plant Tissue Culture and Green House Technology
(Regular Paper 12)

Paper 15 – Genetic Improvement of Crop Plants (Regular Paper 15)

Paper 16 - Genetic Engineering in Crop Plants (Regular Paper 16)

GROUP D

Paper 13 – Taxonomy of Angiosperms (Regular Paper 11)

Paper 14 – Modern Trends in Angiosperms (Regular Paper 12)

Paper 15 – Floristics and Biosystematics (Regular Paper 15)

Paper 16 - Phylogeny and Floral Biology of Angiosperms (Regular Paper 16)

GROUP E

Paper – 13 : Energy Studies and Experimental Ecology (Regular Paper 11)

Paper - 14 : Environment and Pollution (Regular Paper 12)

Paper – 15 : Community Ecology (Regular Paper 15)

Paper – 16 : Environmental Issue Assessment and Restoration
(Regular Paper 16)

GROUP F

Paper – 13 : Plant diseases and their management (Regular Paper 11)

Paper - 14 : Insect Pests and their management (Regular Paper 12)

Paper – 15 : Recent Advances in Plant Protection (Regular Paper 15)

Paper – 16 : Plant protection techniques and equipments (Regular Paper 16)

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PATIL AP

BIRJE SR/Jc