

(BOT10112)

UNIT III

M.Sc. DEGREE EXAMINATION, DECEMBER 2016.

5. Describe the structure and reproduction of phaeophyta.

First Semester

Or

Botany

Paper I — BIOLOGY AND DIVERSITY OF VIRUSES,  
BACTERIA, ALGAE AND FUNGI

6. Describe the structure and reproduction, of chlorophyta.

(Regulation 2012)

UNIT IV

Time : Three hours

Maximum : 70 marks

7. Give an account of the classification of fungi.

Answer ONE question from each unit.

Or

All questions carry equal marks.

(5 × 14 = 70)

8. Enumerate the salient features of mushroom cultivation in India.

UNIT I

UNIT V

1. Give a brief account of discovery of viruses and their purification.

Or

2. Describe the replication and transmission of viruses.

9. Give an account of economic importance of microbes.

Or

UNIT II

10. Explain the economic importance of algae.

3. Describe the nutritional types in bacteria.

Or

4. Enumerate the salient features of recombination in bacteria.

(BOT10212)

UNIT III

M.Sc. DEGREE EXAMINATION, DECEMBER 2016.

5. Describe the female gametophytes of gymnosperms.

First Semester

Or

Botany

Paper II — BRYOPHYTES, PTERIDOPHYTES,  
GYMNOSPERMS AND PLANT FOSSILS

6. Describe the wood in gnetopsida.

UNIT IV

(Regulation 2012)

7. How do you determine the age of plant fossils?

Time : Three hours

Maximum : 70 marks

Or

Answer ONE questions from each Unit.

8. What are the different types of fossils studied by you?

All questions carry equal marks.

(5 × 14 = 70)

UNIT V

UNIT I

9. Give a comprehensive account of fossil pteridophytes.

1. Describe the range of thallus organization and reproduction in anthocerotopsida.

Or

Or

2. Give an account of evolutionary trends in gametophytes of bryophytes.

10. Write an essay on pentoxylales.

UNIT II

3. Describe the reproduction in pteropsida.

Or

4. Describe the evolution of stele in pteridophytes.

(BOT10312)

UNIT III

M.Sc. DEGREE EXAMINATION, DECEMBER 2016.

First Semester

Botany

Paper III — TAXONOMY OF ANGIOSPERMS

(Regulation 2012)

Time : Three hours

Maximum : 70 marks

Answer ONE question from each Unit.

All questions carry equal marks.

(5 × 14 = 70)

UNIT I

1. Give a brief account of natural systems of classifications studied by you.

Or

2. Explain the principles, rules and recommendations of ICBN and add a note on typification.

UNIT II

3. Compare and contrast the systems of classifications of Bentham and Hooker and Takhtajan.

Or

4. Give a brief account of mangnolids.

5. Explain the role of embryology in resolving taxonomic disputes.

Or

6. What is an herbarium? How it is prepared? What are its uses?

UNIT IV

7. Name five herbaria and botanical gardens each in India and world.

Or

8. Explain the role of floras, monographs and journals in taxonomic studies.

UNIT V

9. Enumerate the salient features of numerical taxonomy.

Or

10. Explain the role of serology in resolving taxonomic disputes.

(BOT10412)

UNIT III

M.Sc. DEGREE EXAMINATION, DECEMBER 2016.

First Semester

Botany

Paper IV — PLANT RESOURCE UTILIZATION AND CONSERVATION

(Regulation 2012)

Time : Three hours

Maximum : 70 marks

Answer ONE question from each Unit.

All questions carry equal marks.

(5 × 14 = 70)

UNIT I

1. Explain the relationship between biodiversity and biotechnology.

Or

2. Explain the role of remote sensing in conservation.

UNIT II

3. Describe the botany and cultivation practices involved in sorghum.

Or

4. Describe the botany and cultivation practices involved in tomato.

5. Describe the timber yielding plant rosewood, add a note on its distribution and uses.

Or

6. Describe the medical plant *Andrographis* and add a note on its therapeutic values.

UNIT IV

7. What role did IUCN and WWF play in conservation of resources?

Or

8. Give an account on hot spots of India and world.

UNIT V

9. Explain the strategies involved in the conservation of biosphere reserves.

Or

10. Explain the role of botanical gardens and gene banks in *ex situ* conservation.