

(BOT10112)

UNIT III

M.Sc. DEGREE EXAMINATION, DECEMBER 2019.

3. (a) Describe the thallus organization in algae.

Or

First Semester

(b) Describe the structure and reproduction in phaeophyta.

Botany

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

UNIT IV

(Regulation 2012)

4. (a) Give the classification of fungi.

Or

Time.: Three hours

Maximum : 70 marks

(b) Describe the reproduction in fungi.

Answer ONE question from each unit.

All questions carry equal marks.

(5 × 14 = 70 marks)

UNIT V

5. (a) Describe the economic importance of bacteria.

Or

UNIT I

1. (a) Give a brief account of discovery of viruses and add a note on their cultivation.

(b) Explain the role of algae in industry.

Or

(b) Describe the replication and transmission of viruses.

UNIT II

2. (a) Describe the nutritional types in bacteria.

Or

(b) Describe the general characters of Actinomycetes.

(BOT10212)

UNIT III

M.Sc DEGREE EXAMINATION, DECEMBER 2019.

3. (a) Give the classification, distribution and economic importance of Gymnosperms.

First Semester

Or

Botany

- (b) Give an account of wood in Gnetum.

Paper II — BRYOPHYTES, PTERIDOPHYTES,  
GYMNOSPERMS AND PLANT FOSSILS

UNIT IV

(Regulation 2012)

4. (a) How do you determine the age of fossils?

Or

Time : Three hours

Maximum : 70 marks

- (b) Describe the process of fossilization.

Answer ONE question from each unit.

All questions carry equal marks.

(5 × 14 = 70)

UNIT V

UNIT I

5. (a) Give an account of fossil Pteridophytes.

Or

1. (a) Describe the range of thallus organization in Bryopsida.

Or

- (b) Write an essay on Cordaitales.

- (b) Describe the evolutionary trends in gametophytes in Bryophytes.

UNIT II

2. (a) Describe the reproduction in sphenopsida.

Or

- (b) Write an essay on heterospory and seed habit in Pteridophytes.

(BOT10312)

M.Sc. DEGREE EXAMINATION, DECEMBER 2019.

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 marks)

UNIT I

1. (a) Give an account of artificial systems of classifications.

Or

- (b) Distinguish between effective and valid publications.

UNIT II

2. (a) Give an account of Takhtajan system of classification.

Or

- (b) Give an account of infraspecific categories.

UNIT III

3. (a) Explain the role of cytology in resolving taxonomic disputes.

Or

- (b) Give an account of taxonomic keys studies by you.

UNIT IV

4. (a) How plant explorations helped in the introduction of new plants?

Or

- (b) Explain the role of monographs and journals in taxonomic research.

UNIT V

5. (a) Explain the role of semantides and non-semantides in chemotaxonomy.

Or

- (b) Write an essay on serotaxonomy.

(BOT10412)

UNIT-III

M.Sc. DEGREE EXAMINATIONS, DECEMBER 2019.

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. (5x14=70)

UNIT-I

1. (a) Explain the current status of Biodiversity in India.

Or

- (b) Explain the role of remote sensing in the identification of resources.

UNIT-II

2. (a) Describe the Botany, cultivation practices and uses of rice.

Or

- (b) Describe the Botany, cultivation practices and uses of chillies.

3. (a) Describe *Tectona* and add a note on its distribution and uses.

Or

- (b) Describe the production and applications of biogas.

UNIT-IV

4. (a) Describe the hot spots of the World.

Or

- (b) What are the activities of BSI and NBPGR?

UNIT-V

5. (a) Explain the strategies for *ex situ* conservation.

Or

- (b) How do you conserve sanctuaries and national parks.