(DBOT01)

ASSIGNMENT-1

M.Sc. (Previous) DEGREE EXAMINATION, DECEMBER - 2019

(First Year)

BOTANY

Biology and Diversity of Algae, Bryophytes, Pteridophytes and Gymnosperms

Maximum : 30 MARKS

Answer ALL Questions

Q1) Ecology of Charophyta.

Q2) Evolution in Algae.

Q3) Alternation of generations.

Q4) Elaters and pseudoelaters.

Q5) Gametophyte of Lycopodium.

Q6) Rhizophore and sporocarp.

(DBOT01)

ASSIGNMENT-2

M.Sc. (Previous) DEGREE EXAMINATION, DECEMBER - 2019

(First Year)

BOTANY

Biology and Diversity of Algae, Bryophytes, Pteridophytes and Gymnosperms

Maximum : 30 MARKS

Answer ALL Questions

Q1) RLS and TLS.

Q2) Classification of Gymnosperms.

Q3) a) Describe the reproduction and life cycles in Chlorophyta.
b) Compare and contrast the reproduction in Charophyta and Rhodophyta.

Q4) a) Describe the thallus organization in Bryophytes.
b) Compare and contrast the reproduction in Anthocerotopsida and Hepaticopsida.

Q5) a) Distinguish between homospory and heterospory and give example for each.
b) Give an account of fossil Pteridophytes studied by you.

Q6) a) Describe the reproduction and evolutionary trends in Coniferales.
b) Give an account of Caytoniales.

(DBOT02)

ASSIGNMENT-1

M.Sc. (Previous) DEGREE EXAMINATION, DECEMBER - 2019

First Year

BOTANY

Systematics of Angiosperms and Plant Ecology

Maximum : 30 MARKS

Answer ALL Questions

Q1) Herbalists.

Q2) De Candolle.

Q3) Minor categories.

Q4) Valid publication.

Q5) Plant succession.

Q6) Regulation of populations.

(DBOT02)

ASSIGNMENT-2

M.Sc. (Previous) DEGREE EXAMINATION, DECEMBER - 2019

First Year

BOTANY

Systematics of Angiosperms and Plant Ecology

Maximum : 30 MARKS

Answer ALL Questions

Q1) Floristic regions of the world.

Q2) Control of environmental pollution.

Q93) a) Give an account of any post-Darwinian system of classification studied by you.
b) Compare the present and past plant distributions.

Q4) a) Explain the role of cytology in resolving taxonomic disputes.
b) What are the contributions of geography to taxonomy?

Q5) a) Give an account of food chains and energy flow.
b) Describe the biogeochemical cycles with reference to Sulphur and Phosphorus.

Q6) a) How do you conserve natural resources?
b) Describe the evolution of present day vegetation.

(DBOT03)

ASSIGNMENT-1

M.Sc. (Previous) DEGREE EXAMINATION, DECEMBER - 2019

(First Year)

BOTANY

Cytology, Genetics and Plant Breeding

Maximum : 30 MARKS

Answer ALL Questions

Q1) Synaptonemal complex.

Q2) Packaging of DNA.

Q3) Translocations.

Q4) Haploids.

Q5) Modified dihybrid ratios.

Q6) Probability.

Q7) Plant introduction.

(DBOT03)

ASSIGNMENT-2

M.Sc. (Previous) DEGREE EXAMINATION, DECEMBER - 2019

(First Year)

BOTANY

Cytology, Genetics and Plant Breeding

Maximum : 30 MARKS

Answer ALL Questions

Q1) Multiple crossing.

Q2) a) Distinguish between euchromatin and heterochromatin.

b) Describe the karyotype evolution.

Q3) a) Give an account of special types of chromosomes.

b) Write an essay on autopolyploids.

Q4) a) Describe Chi-square test an its applications.

OR b) Explain the role of mutations in plant breeding.

Q)5 a) Describe the breeding methods in self pollinated crops.

b) Describe the breeding methods in cross pollinated crops.

(DBOT04)

ASSIGNMENT-1

M.Sc. (Previous) DEGREE EXAMINATION, DECEMBER - 2019

First Year

BOTANY

Plant Physiology and Metabolism

Maximum : 30 MARKS

Answer ALL Questions

Q1) Energy dependent hypothesis.

Q2) Role of micro nutrients.

Q3) Light harvesting complexes.

Q4) C3 cycle.

Q5) Transamination.

Q6) Glyoxalate cycle.

(DBOT04)

ASSIGNMENT-2

M.Sc. (Previous) DEGREE EXAMINATION, DECEMBER - 2019

First Year

BOTANY

Plant Physiology and Metabolism

Maximum : 30 MARKS

Answer ALL Questions

Q1) Heat shock proteins.

Q2) Photoperiodism.

Q3) a) Describe the water transport through xylem.

b) Give an account of physical and chemical properties of water.

Q4) a) Write an essay on enzyme nomenclature and classification.

b) Describe photorespiration and its significance.

Q5) a) Describe nitrogen fixation by living and symbiotic microorganisms.

b) Describe glyoxalate cycle.

Q6) a) Describe the physiological effects and mechanism of action of auxins.

b) Describe the plant responses to water stress.