

(DBOT01)

ASSIGNMENT-1

M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2018

(Examination at the end of First Year)

BOTANY

First Year

Bio. & Div. of Algae, Bryophytes, Pteridophytes & Gymnosperms

MAXIMUM MARKS:30

Answer ALL Questions

Q1) Bacillariophyta

Q2) Fossil algae

Q3) Archegoniophore

Q4) Geamma cups

Q5) Siphonostele

Q6) Rhynia

Q7) Cycadeoidea

Q8) Pyconoxylic wood

ASSIGNMENT-2
M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2018
(Examination at the end of First Year)
BOTANY
First Year
Bio. & Div. of Algae, Bryophytes, Pteridophytes & Gymnosperms
MAXIMUM MARKS:30
Answer ALL Questions

Q1) a) Describe reproduction in algae.

b) Write an account on the economic importance of algae.

Q2) a) Describe the development of sporophyte in Bryophyta

b) Describe the structure and reproduction in Bryopsids

Q3) a) Describe the structure and reproduction in Psilotopsida

b) Write an account on classification of Pteridophytes.

Q4) a) Describe the development of female gametophyte in Gymnosperms.

b) Write an account on Bennettitales.

(DBOT02)

ASSIGNMENT-1
M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2018

BOTANY

First Year

Systematics of Angiosperms and Plant Ecology

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** Engler and Prantle classification
- Q2)** Merits and demerits of Bentham and Hooker classification.
- Q3)** Contribution of anatomy to taxonomy
- Q4)** Biological magnification
- Q5)** Hydrological cycle
- Q6)** Homeostasis
- Q7)** Floristic regions of India
- Q8)** Principles of plant geography

(DBOT02)

ASSIGNMENT-2
M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2018

BOTANY

First Year

Systematics of Angiosperms and Plant Ecology

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** a) Describe the plant distribution in the past and present.
b) Write an account on the types of vegetation.
- Q2)** a) Enumerate the evaluation of taxonomic categories.
b) Describe the criteria for the classification
- Q3)** a) Describe the biogeochemical cycles with reference to Carbon and Phosphorus.
b) Write an account on population interactions and natural regulation of populations.
- Q4)** a) Describe the water pollution, its causes, consequences and control.
b) Write an account on alternate and additional energy sources.

(DBOT03)

ASSIGNMENT-1
M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2018

First Year

Botany

Cytology, Genetics and Plant Breeding

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** Telomere
- Q2)** Karyotype analysis
- Q3)** Heterozygotes
- Q4)** Allopolyploids
- Q5)** Pseudoalleles
- Q6)** Sex limited inheritance
- Q7)** Probability laws
- Q8)** Back cross method

(DBOT03)

ASSIGNMENT-2
M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2018

First Year

Botany

Cytology, Genetics and Plant Breeding

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** a) Describe the significance of mitosis and meiosis.
b) Write an account on Euchromatin and Heterochromatin.
- Q2)** a) Enumerate structural and numerical alterations of chromosomes.
b) Describe the evolution of major crop plants.
- Q3)** a) Describe the principles of mendelian inheritance.
b) Write an account on sex determination mechanisms in plants and man.
- Q4)** a) Describe the pure line selection and mass selection.
b) Write an account on clonal selection and hybridization.

(DBOT04)

ASSIGNMENT-1
M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2018

First Year

BOTANY

Plant Physiology and Metabolism

MAXIMUM MARKS:30

Answer ALL Questions

- Q1)** Cohesion theory
- Q2)** Membrane transport of proteins
- Q3)** Mode and action of k_m value
- Q4)** CAM pathway
- Q5)** Transamination
- Q6)** TCA cycle
- Q7)** Phytochrome
- Q8)** Heat shock proteins

(DBOT04)

ASSIGNMENT-2
M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2018

First Year

BOTANY

Plant Physiology and Metabolism

MAXIMUM MARKS:30

Answer ALL Questions

Q1) a) Describe the stomatal regulation of transpiration.

b) Describe the role of micro and macro nutrients and their transport by diffusion.

Q2) a) Write an account on classification and nomenclature of enzymes.

b) Describe the overview of respiration in plants.

Q3) a) Describe the mechanism of Nitrogen fixation.

b) Write an account on structure and functions of phospholipids.

Q4) a) Describe the physiological effects and mechanism of action of Auxins

b) Enumerate photoperiodism and vernalisation.