

(DBOT01)

ASSIGNMENT - 1

M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2019

First Year

BOTANY

Biology and Diversity of Algae, Bryophytes, Pteridophytes and Gymnosperms

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)* Ecology of cyanophyta
- Q2)* Fossil algae
- Q3)* Thallus range in Bryophytes
- Q4)* Archegonium
- Q5)* Psilotum rhizome T.S.
- Q6)* Embryo in Lycosida
- Q7)* RLS and TLS
- Q8)* Cones in Pinus

(DBOT01)

ASSIGNMENT - 2

M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2019

First Year

BOTANY

Biology and Diversity of Algae, Bryophytes, Pteridophytes and Gymnosperms

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Describe the life cycle patterns in Algae.
b) Describe the economic importance of Algae.
- Q2)** a) Describe the reproduction and evolutionary trends in Hepaticopsida.
b) Compare and contrast the reproduction in Anthocerotopsida and Bryopsida.
- Q3)** a) Describe the stelar variation in Lycopsidea.
b) Give an account of fossil Pteridophytes.
- Q4)** a) Describe the structure of wood in Gnetum.
b) Enumerate the salient features of Bennettitales.



(DBOT02)

ASSIGNMENT - 1

M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2019

(Examination at the end of First Year)

BOTANY

First Year

Systematics of Angiosperms and Plant Ecology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)* Carolus Linnaeus
- Q2)* Primitive flower in Engler and Prantl system of classification
- Q3)* Intraspecific categories
- Q4)* Codes in nomenclature
- Q5)* Energy flow
- Q6)* Homeostasis
- Q7)* Floristic regions of India.
- Q8)* Alternate energy sources.

(DBOT02)

ASSIGNMENT - 2

M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2019

(Examination at the end of First Year)

BOTANY

First Year

Systematics of Angiosperms and Plant Ecology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Describe the vegetation of Guntur and Prakasam districts.
b) Give an account of Hutchinson system of classification and add a note on its merits and demerits.
- Q2)** a) Explain the role of anatomy in resolving taxonomic disputes.
b) Explain the role of phytochemistry in resolving taxonomic disputes.
- Q3)** a) Describe the biogeochemical cycles with reference to carbon and phosphorus.
b) Describe the population interactions and their natural regulation.
- Q4)** a) Enumerate the salient features of endemism and continental drift.
b) What are the causes and consequences of environmental pollution and how do you control it?



(DBOT03)

ASSIGNMENT - 1

M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2019

First Year

BOTANY

Cytology, Genetics and Plant Breeding

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)* Prokaryotic cell
- Q2)* Nucleolus
- Q3)* Lamp brush chromosomes
- Q4)* Evolution of wheat
- Q5)* Tetrad analysis
- Q6)* Probability
- Q7)* Back cross method
- Q8)* Clonal selection

(DBOT03)

ASSIGNMENT - 2
M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2019

First Year

BOTANY

Cytology, Genetics and Plant Breeding

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Describe cell cycle.
b) Describe the various banding techniques studied by you.
- Q2)** a) Give an account of structural alterations in chromosomes.
b) Give an account of numerical changes in chromosomes.
- Q3)** a) Describe the chromosome mapping in Eukaryotes.
b) How do you induce mutations and their role in plant breeding.
- Q4)** 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, MAY – 2019

First Year

BOTANY

Plant Physiology and Metabolism

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)* Bulk flow
- Q2)* Cohesion theory
- Q3)* Km value
- Q4)* C4 cycle
- Q5)* Nitrogen uptake and assimilation
- Q6)* b - oxydation
- Q7)* Heat shock proteins
- Q8)* Abscisic acid

(DBOT04)

ASSIGNMENT - 2

M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2019

First Year

BOTANY

Plant Physiology and Metabolism

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Describe the stomatal regulation of transpiration.
b) Describe the role of micro and macro nutrients and their transportation.
- Q2)** a) Describe the mechanism of electron and proton transport in photosynthesis.
b) Give an account of TCA cycle electron transport and ATP synthesis.
- Q3)** a) Describe the synthesis of aminoacids by reductive amination.
b) Give the classification of lipids, their structure and functions.
- Q4)** a) Describe the phytochemical and biochemical properties of phytochrome.
b) Enumerate the salient features of photoperiodism and its role in vernalisation.

