

(DBOT01)

ASSIGNMENT-1

M.Sc. (Previous) DEGREE EXAMINATION, DECEMBER. – 2017

First Year

BOTANY

**(Paper – I): Biology and Diversity of Algae, Bryophytes, Pteridophytes
and Gymnosperms**

Maximum Marks: 30

Answer ALL Questions

- Q1)** Reproduction in Cyanophyta
- Q2)** Protista
- Q3)** General characters of Bryophytes
- Q4)** Thallus organisation in Hepaticopsida
- Q5)** Psilotum
- Q6)** Reproduction in Lycopsida
- Q7)** Caytoniales
- Q8)** Classification of Gymnosperms

(DBOT01)

ASSIGNMENT-2
M.Sc. (Previous) DEGREE EXAMINATION, DECEMBER. – 2017

First Year
BOTANY

**(Paper – I): Biology and Diversity of Algae, Bryophytes, Pteridophytes
and Gymnosperms**

Maximum Marks: 30
Answer ALL Questions

- Q1)** a) Describe the life cycles in Chlorophyta.
b) Describe the reproduction in Rhodophyta.
- Q2)** a) Describe the reproduction in Anthocerotopsida.
b) Describe the evolutionary trends in Bryophytes.
- Q3)** a) Give an account of fossil Pteridophytes.
b) Compare and contrast the reproductive structures in Sphaenopsida and Pteropsida.
- Q4)** a) Describe the structure of wood in Coniferales.
b) Give an account of Bennettitales.



(DBOT02)

ASSIGNMENT-1

M.Sc. (Previous) DEGREE EXAMINATION, DEC. – 2017

BOTANY

(Paper - II) : Systematics of Angiosperms and Plant Ecology

Maximum Marks: 30

Answer ALL Questions

- Q1)* Carolus Linnaeus

- Q2)* Plant distribution at present

- Q3)* Types of nomenclature

- Q4)* Anatomy in relation to taxonomy

- Q5)* Food chains

- Q6)* Population interactions

- Q7)* Evolution of present day vegetation

- Q8)* Alternate energy sources

(DBOT02)

ASSIGNMENT-2

M.Sc. (Previous) DEGREE EXAMINATION, DEC. – 2017

BOTANY

(Paper - II) : Systematics of Angiosperms and Plant Ecology

Maximum Marks: 30

Answer ALL Questions

- Q1)** a) Describe any post – Darwinian system of classification studied by you.
b) Describe the vegetation types of Andhra Pradesh.
- Q2)** a) Give an account of taxonomic categories.
b) Explain the role of cytology in resolving taxonomic disputes.
- Q3)** a) Describe biogeochemical cycle with reference to carbon.
b) Describe energy flow in an ecosystem.
- Q4)** a) What are the causes and consequences of environmental pollution.
b) Give a detailed account of floristic regions of India.



(DBOT03)

ASSIGNMENT-1

M.Sc. (Previous) DEGREE EXAMINATION, DEC. – 2017

First Year

BOTANY

(Paper - III) : Cytology, Genetics and Plant Breeding

Maximum Marks: 30

Answer ALL Questions

- Q1)* Distinguish between euchromatin and heterochromatin.
- Q2)* Distinguish between prokaryotic and eukaryotic cell.
- Q3)* Distinguish between euploids and aneuploids.
- Q4)* Distinguish between auto and allopolyploids.
- Q5)* Distinguish between multiple alleles and pseudoalleles.
- Q6)* Distinguish between spontaneous and induced mutations.
- Q7)* Distinguish between test cross and back cross.
- Q8)* Distinguish between pure line selection and mass selection.

(DBOT03)

ASSIGNMENT-2

M.Sc. (Previous) DEGREE EXAMINATION, DEC. – 2017

First Year

BOTANY

(Paper - III) : Cytology, Genetics and Plant Breeding

Maximum Marks: 30

Answer ALL Questions

- Q1)** a) Describe cell cycle in detail.
b) Describe the various banding techniques studied by you.
- Q2)** a) Give an account of structural alterations in chromosomes.
b) Describe the meiosis in haploids.
- Q3)** a) Give an account of cytoplasmic inheritance.
b) Explain the role of mutations 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, DEC. – 2017

BOTANY

First Year

(Paper - IV) : Plant Physiology and Metabolism

Maximum Marks: 30

Answer ALL Questions

Q1) Physical properties of water

Q2) Membrane transport proteins

Q3) Km value

Q4) C3 cycle

Q5) Glyoxalate cycle

Q6) GS-GOGAT

Q7) Heat shock proteins

Q8) Phytochrome

(DBOT04)

ASSIGNMENT-2
M.Sc. (Previous) DEGREE EXAMINATION, DEC. – 2017

BOTANY

First Year

(Paper - IV) : Plant Physiology and Metabolism

Maximum Marks: 30

Answer ALL Questions

- Q1)** a) Describe water transport through xylem.
- b) Describe the role of micro and macro nutrients in nutrition.
- Q2)** a) Describe the structure of chloroplast.
- b) Describe photorespiration and its significance.
- Q3)** a) Describe the mechanism of nitrogen fixation.
- b) Give an account of classification, structure and functions of storage and membrane lipids.
- Q4)** a) Write an essay on physiological effects and mechanism of action of auxins.
- b) Describe photoperiodism and role of vernalisation.

