

(DBOT21)

ASSIGNMENT - 1
M.Sc. DEGREE EXAMINATION, MAY – 2019

Second Year

BOTANY

Development Biology of Angiosperms and Ethnobotany

MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

- Q1)* Female gametophyte
- Q2)* Polyembryony
- Q3)* Stomata
- Q4)* Sieve plates
- Q5)* Concept and scope of ethnobotany
- Q6)* Ethnology of tribes of Guntur and Prakasam districts.
- Q7)* Medicinal plants of Eastern Ghats
- Q8)* Traditional knowledge

(DBOT21)

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

Second Year

BOTANY

Development Biology of Angiosperms and Ethnobotany

MAXIMUM : 30 MARKS
ANSWER ALL QUESTIONS

- Q1)** a) Describe the development of male gametophyte.
b) Describe the structure and development of endosperm.
- Q2)** a) Describe the anatomy of meristems studied by you.
b) Give an account of anomalous secondary growth in a dicot stem.
- Q3)** a) Explain the role of traditional medicine in India.
b) Explain the strategies for conservation of sacred groves in Andhra Pradesh.
- Q4)** a) Explain the role of phytomedicine in modern medicine.
b) Give an account of ethnobotanical research in different Universities of A.P.



(DBOT22)

ASSIGNMENT - 1

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

Second Year

BOTANY

Microbiology, Mycology and Plant Diseases

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)* Classification of bacteria.
- Q2)* Transmission of viruses
- Q3)* Justification for kingdom Mycetae
- Q4)* Mastigomycotina
- Q5)* Dispersal of plant pathogens
- Q6)* Indexing and forecasting
- Q7)* Biological control of plant diseases
- Q8)* Control of TMV

(DBOT22)

ASSIGNMENT - 2

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

Second Year

BOTANY

Microbiology, Mycology and Plant Diseases

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Describe the types of nutrition in bacteria.
b) Explain the role of bacteria in carbon and phosphorus cycles.
- Q2)** a) Give a general account of Basidiomycotina.
b) Describe the economic importance of fungi with reference to mushroom cultivation.
- Q3)** a) Describe the symptoms caused by plant pathogenic fungi, bacteria and viruses.
b) Explain the role of enzymes, toxins and phytoalexins in pathogenesis.
- Q4)** a) Describe the symptoms, etiology, epidemiology and control of smut of sugarcane.
b) Describe the symptoms, etiology, epidemiology and control of diseases in rice.



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BOTANY

Second Year

Cell Biology and Molecular Biology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)* Vacuoles
- Q2)* Lysosomes
- Q3)* Genetics of Cancer
- Q4)* Structure of gene
- Q5)* Transformation and transduction
- Q6)* Chemical structure of DNA
- Q7)* Gene expression in eukaryotes
- Q8)* Chemical structure of DNA

(DBOT23)

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

BOTANY

Second Year

Cell Biology and Molecular Biology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) Describe the ultra structure of plasma membrane.
b) Give an account on endoplasmic reticulum.
- Q2)** a) Describe the principles and applications of SEM.
b) Give an account of cell signalling and its transduction.
- Q3)** a) Trace the evolution of gene concept.
b) Give an account of DNA as genetic material.
- Q4)** a) Describe DNA repair mechanisms.
b) Give an account of genetic code.



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ASSIGNMENT - 1

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

BOTANY

Second Year

Plant Biotechnology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

Q1) Tissue culture techniques

Q2) Selection of mutants in vitro for biotic stress.

Q3) Synthetic seeds

Q4) Cell suspension

Q5) c DNA libraries

Q6) PCR

Q7) Transgenic plants

Q8) Gene transfer methods

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ASSIGNMENT - 2

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

BOTANY

Second Year

Plant Biotechnology

MAXIMUM : 30 MARKS

ANSWER ALL QUESTIONS

- Q1)** a) How do you produce haploids through anther culture?
b) Write an essay on meristem culture and embryogenesis.
- Q2)** a) By using tissue culture as a tool how do you produce secondary metabolites?
b) Describe protoplast fusion and somatic hybridization.
- Q3)** a) Enumerate the salient features of in vitro genetic engineering.
b) Describe the different blotting techniques studied by you.
- Q4)** a) Explain the role of RFLP and RAPD in crop improvement.
b) Describe the Agrobacterium mediated gene transfer.

