

(DBOT21)

ASSIGNMENT-1

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

BOTANY

(Paper - I) : Development Biology of Angiosperms and Ethnobotany

Maximum Marks: 30

Answer ALL Questions

Q1) Incompatibility

Q2) Polyembryony

Q3) Apical meristem

Q4) Dormancy

Q5) Ethnobotany in relation with other disciplines.

Q6) Sacred groves in Guntur district

Q7) Ethnology of any tribal residing in AP

Q8) Ethnobotanical research

(DBOT21)

ASSIGNMENT-2

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

BOTANY

(Paper - I) : Development Biology of Angiosperms and Ethnobotany

Maximum Marks: 30

Answer ALL Questions

- Q1)** a) Describe the structure and development of embryo.
b) Write an essay on polyembryony.
- Q2)** a) Describe the anatomical differences between the stems of dicots and monocots.
b) Describe the anomalous secondary thickening in a monocot stem.
- Q3)** a) Describe the scope and history of traditional medicine in India.
b) What is the significance of sacred groves?
- Q4)** a) Explain the major medicinal plants cultivated in Andhra Pradesh.
b) Describe the importance of phytochemicals in modern medicine.



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ASSIGNMENT-1

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

Second Year

BOTANY

(Paper - II) : Microbiology, Mycology and Plant Diseases

Maximum Marks: 30

Answer ALL Questions

Q1) Bergey's classification of bacteria

Q2) Heterotrophs

Q3) Myxomycotoma

Q4) Cultivation of mushrooms

Q5) Phytoalexins

Q6) Forecast of plant diseases

Q7) Powdery mildew of cucurbits

Q8) RTV disease

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ASSIGNMENT-2

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

Second Year

BOTANY

(Paper - II) : Microbiology, Mycology and Plant Diseases

Maximum Marks: 30

Answer ALL Questions

- Q1)** a) Describe the role of bacteria in carbon cycle.
- b) Classify the plant viruses. How they are transmitted and how to control them?
- Q2)** a) Distinguish between Zygomycotina and Ascomycotina.
- b) Describe the economic importance of fungi.
- Q3)** a) Give an account of symptoms caused by pathogenic bacteria.
- b) Describe the entry and establishment of pathogens.
- Q4)** a) Describe the epidemiology and control of damping off vegetables.
- b) Write an essay on biological control of plant diseases.



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ASSIGNMENT-1

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

BOTANY

(Paper – III) : Cell Biology and Molecular Biology

Maximum Marks: 30

Answer ALL Questions

Q1) Vacuole

Q2) Lysosomes

Q3) Cell signalling

Q4) Compound microscope

Q5) Transformation

Q6) Transduction

Q7) Transcription

Q8) Translation

(DBOT23)

ASSIGNMENT-2

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

BOTANY

(Paper – III) : Cell Biology and Molecular Biology

Maximum Marks: 30

Answer ALL Questions

- Q1)** a) Describe the ultra structural organization of plant cell.
- b) Describe the structure and functions of endoplasmic reticulum.
- Q2)** a) Write an essay on genetics of cancer.
- b) Describe transposable elements.
- Q3)** a) How do you consider DNA as genetic material?
- b) Describe the fine structure of gene.
- Q4)** a) Explain DNA repair mechanisms.
- b) Describe gene regulation in prokaryotes.



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ASSIGNMENT-1

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

BOTANY

Plant Biotechnology (Paper - IV)

Maximum Marks: 30

Answer ALL Questions

Q1) Scope of Biotechnology

Q2) Sterilization

Q3) Vectors

Q4) c DNA libraries

Q5) Production of cybrids

Q6) rDNA molecule

Q7) RAPD

Q8) Gene transfer

(DBOT24)

ASSIGNMENT-2

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

BOTANY

Plant Biotechnology (Paper - IV)

Maximum Marks: 30

Answer ALL Questions

- Q1)** a) Describe the production of haploids through anther culture.
- b) How do you produce biotic and abiotic stress plants through in vitro selection of mutants.
- Q2)** a) Write an essay of somatic embryogenesis
- b) List the steps involved in the production of secondary metabolites through tissue culture.
- Q3)** a) Write an essay on polymerase chain reaction.
- b) Give an account of in vitro – genetic engineering.
- Q4)** a) Describe gene transfer methods Agrobacterium mediated gene transfer.
- b) Explain the role of transgenic plants in agriculture and industry.

