(DBOT21)

ASSIGNMENT-1

M.Sc. (Second) DEGREE EXAMINATION, DECEMBER - 2019

(Second Year)

BOTANY

Development Biology of Angiosperms & Ethnobotany

Answer ALL Questions

Maximum : 30 MARKS

Q1) Incompatibility.

Q2) Fertilisation.

Q3) Root-stem transition.

Q4) Apical bud.

Q5) Primitive tribal groups of AP.

Q6) Conservation of sacred groves.

Q7) Phytochemicals.

(DBOT21)

ASSIGNMENT-2

M.Sc. (Second) DEGREE EXAMINATION, DECEMBER - 2019

(Second Year)

BOTANY

Development Biology of Angiosperms & Ethnobotany

Maximum : 30 MARKS

Answer ALL Questions

Q1) Phytochemicals

Q2) Significance of ethnobotanical research.

Q3) a) Describe the structure and development of embryo.

b) Write an essay on polyembryony and apomixis.

Q4) a) Describe the anatomy of leaf.

b) Give an account of anomalous secondary growth in a monocot stem.

Q5) a) What are the contributions of traditional medicine to modern medicine?

b) Describe the sacred groves of Guntur and Prakasam districts.

Q6) a) How do you evaluate scientifically the plants used by tribals?

b) Give an account of tribal rights.

(DBOT22)

ASSIGNMENT-1

M.Sc. (Second) DEGREE EXAMINATION, DECEMBER - 2019

Second Year

BOTANY

Microbiology, Mycology and Plant Diseases

Maximum : 30 MARKS

Answer ALL Questions

Q1) Ultra structure of bacterial cell.

Q2) Chemoautotrophs.

Q3) Classification of fungi.

Q4) Myxomycotina.

Q5) Physiological changes in diseased plants.

Q6) Role of enzymes and phytoalexins in pathogenesis.

(DBOT22)

ASSIGNMENT-2

M.Sc. (Second) DEGREE EXAMINATION, DECEMBER - 2019

Second Year

BOTANY

Microbiology, Mycology and Plant Diseases

Maximum : 30 MARKS

Answer ALL Questions

Q1) Rust of groundnut.

Q2) Little leaf of brinjal.

Q3) a) Describe the role of bacteria in carbon and nitrogen cycles.

Q4) a) Give a general account of Deuteromycotina.

b) Write a detailed account of mushroom cultivation.

Q5) a) Describe the entry and establishment of pathogens and their dispersal.

b) Describe the factors affecting outbreak of plant diseases, indexing and forecasting.

Q6) a) Describe the symptoms, etiology, epidemiology and control of powdery mildew of cucurbits.

b) Describe the symptoms, etiology, epidemiology and control of diseases in rice.

(DBOT23)

ASSIGNMENT-1

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

Second Year

BOTANY

Cell Biology and Molecular Biology

Maximum : 30 MARKS

Answer ALL Questions

Q1) Plasma membrane

Q2) Endoplasmic reticulum

Q3) Compound microscope

Q4) Signal transduction

Q5) Conjugation and transduction

Q6) Fine structure of gene

(DBOT23)

ASSIGNMENT-2

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

Second Year

BOTANY

Cell Biology and Molecular Biology

Maximum : 30 MARKS

Answer ALL Questions

Q1) Genetic code

Q2) DNA repair

Q3) a) Describe the ultra structure and functions of golgi apparatus.

b) Describe the ultra structure and functions of lysosomes.

Q4) a) Describe the principles and applications of TEM.

b) Describe the over view of transposable elements.

Q5) a) How do you prove DNA as genetic material?

b) Describe the evolution of gene concept.

Q6) a) Describe the replication of DNA.

b) Describe the gene regulation in prokaryotes.

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(DBOT24)

ASSIGNMENT-1

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

Second Year

BOTANY

PLANT BIOTECHNOLOGY

Maximum : 30 MARKS

Answer ALL Questions

Q1) Scope of biotechnology

Q2) Micropropagation

Q3) Somatic embryogenesis

Q4) Cell suspension and culture

Q5) Western blotting

Q6) Amplification of DNA

(DBOT24)

ASSIGNMENT-2

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

Second Year

BOTANY

PLANT BIOTECHNOLOGY

Maximum : 30 MARKS

Answer ALL Questions

Q1) RFLP

Q2) Agrobacterium mediated gene transfer

Q3) a) Describe the selection of mutants in vitro for biotic and abiotic stress.

b) What techniques do you follow for tissue culture?

Q4) a) Describe the protocol for production of synthetic seeds.

b) Give an account of protoplast fusion and somatic hybridization.

Q5) a) Describe the production of r DNA molecule.

b) Explain the role of gene cloning vectors in biotechnology.

Q6) a) Describe the direct gene transfer methods.

b) Explain the role of transgenic plants in agriculture.

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