

(DBOT21)

ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, MAY – 2018
Second Year
BOTANY

Development Biology of Angiosperms and Ethanobotany

MAXIMUM MARKS:30
Answer ALL Questions

- Q1)* Pollen morphology
- Q2)* Fertilization
- Q3)* Secondary meristem
- Q4)* Xylem fibres
- Q5)* Root tip
- Q6)* Sacred grooves
- Q7)* Fruit development
- Q8)* Ethnobotanical Research in India.

(DBOT21)

ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, MAY – 2018
Second Year
BOTANY

Development Biology of Angiosperms and Ethanobotany

MAXIMUM MARKS:30
Answer ALL Questions

- Q1)** a) Describe the development endosperm and embryo
b) Describe polyembryony and apomixes.
- Q2)** a) Write an account on the internal structure of Root.
b) Describe the development of Xylem and its significance.
- Q3)** a) Describe the concept, scope and history of traditional medicine in India.
b) Write an account on the strategies to conserve the sacred grooves.
- Q4)** a) Describe the importance of phytochemicals in modern medicine.
b) Enumerate the need for the protection of Tribal Rights.

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ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, MAY – 2018
Second Year
BOTANY
Microbiology, Mycology and Plant Diseases
MAXIMUM MARKS:30
Answer ALL Questions

- Q1)* Role of bacteria in carbon cycle
- Q2)* Transmission of Viruses
- Q3)* Mtxomycota
- Q4)* Importance of Fungi
- Q5)* Plant disease indexing
- Q6)* Dispersal of plant pathogens
- Q7)* Little leaf of Brinjal
- Q8)* Rust of ground nut

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ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, MAY – 2018
Second Year
BOTANY
Microbiology, Mycology and Plant Diseases
MAXIMUM MARKS:30
Answer ALL Questions

- Q1)** a) Describe the nutritional types of bacteria.
b) Describe the morphology and ultra - structure of Bacteria.
- Q2)** a) Write an account on Zygomycotina.
b) Describe how the Mushrooms are cultivated.
- Q3)** a) Describe the role of enzymes and toxins in pathogenesis and physiological changes in diseased plants.
b) Describe the symptoms caused by plant pathogenic Fungi and Bacteria.
- Q4)** a) Write an account on the principles of disease control and biological control of plant disease.
b) Describe the symptoms, etiology, epidemiology and control of Blast disease of Rice.

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ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, MAY – 2018
Second Year
BOTANY
Cell Biology and Molecular Biology
MAXIMUM MARKS:30
Answer ALL Questions

- Q1)* Plasma membrane
- Q2)* Vacuoles
- Q3)* Principles of TEM and its applications
- Q4)* Cell signaling
- Q5)* Evolution of gene concept
- Q6)* Fine structure of gene
- Q7)* Chemical Structure of DNA
- Q8)* Gene regulation in Eukaryotes

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ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, MAY – 2018
Second Year
BOTANY
Cell Biology and Molecular Biology
MAXIMUM MARKS:30
Answer ALL Questions

- Q1)** a) Describe the Ultrastructure and functions of Endoplasmic reticulum.
- b) Describe the structure and functions of Lysosomes.
- Q2)** a) Write an account on transposable elements.
- b) Describe the genetics of cancer and its control
- Q3)** a) Describe the genetics of Bacteria.
- b) Describe the genetic recombination in Phage.
- Q4)** a) Write an account on DNA repair mechanisms.
- b) Describe Translation and genetic code.

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ASSIGNMENT-1
M.Sc. DEGREE EXAMINATION, MAY – 2018
Second Year
BOTANY
Plant Biotechnology
MAXIMUM MARKS:30
Answer ALL Questions

- Q1)* Micropropagation
- Q2)* Embryogenesis
- Q3)* Synthetic seeds
- Q4)* Production of Cybrids
- Q5)* cDNA libraries
- Q6)* Amplification of DNA
- Q7)* RFLP
- Q8)* Role of biotechnology in Agriculture

(DBOT24)

ASSIGNMENT-2
M.Sc. DEGREE EXAMINATION, MAY – 2018
Second Year
BOTANY
Plant Biotechnology
MAXIMUM MARKS:30
Answer ALL Questions

- Q1)** a) Describe the production of haploids through anther culture.
- b) Describe the selection of mutants in – vitro for biotic and abiotic stress.
- Q2)** a) Write an account on somatic embryogenesis.
- b) Describe the protoplast fusion and somatic hybridization.
- Q3)** a) Describe the molecular analysis by blotting techniques.
- b) Describe the gene cloning vectors and their significance.
- Q4)** a) Write an account on transgenic plants.
- b) Describe the methods of gene transfer.