(DBOT 21)

ASSIGNMENT - 1, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

BOTANY

PAPER — V : DEVELOPMENT BIOLOGY OF ANGIOSPERMS AND ETHNOBOTANY

Maximum : 30 MARKS

Answer ALL questions.

1) Process of Fertilization.

2) Megasporangium.

3) Root.

4) Phloem.

5) Give a detailed account on male gametophyte?

6) What is polyembryony? Explain in detail?

7) Discuss the meristems and their significance in plants?

8) Give an account on Anomalous secondary growth?

(DBOT 21)

ASSIGNMENT - 2, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

BOTANY

PAPER — V : DEVELOPMENT BIOLOGY OF ANGIOSPERMS AND ETHNOBOTANY

Maximum : 30 MARKS

Answer ALL questions.

1) Scope of ethnobotany.

2) Ethnobotanical significance.

3) Sacred Groves significance.

4) Modern medicine.

5) With the account on sacred Groves and their strategies to conservation?

6) Discuss the Importance of Ethnobotany and scope.

7) Discuss the Importance of Phytochemicals in modern medicine?

8) Discuss the who to protection of Tribal Rights?

(DBOT 22)

ASSIGNMENT - 1, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

BOTANY

PAPER — VI : MICROBIOLOGY, MYCOLOGY AND PLANT DISEASES

Maximum : 30 MARKS

Answer ALL questions.

1) Bacterial cell wall.

2) Heterotrophs.

3) Capsid.

4) Myxomycota.

5) Explain the role of Bacteria in nitrogen and phosphorous cycle?

6) Discuss the types of Nutritional in Bacteria?

7) General account on Ascomycotina?

8) Economic importance of fungi?

(DBOT 22)

ASSIGNMENT - 2, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

BOTANY

PAPER — VI : MICROBIOLOGY, MYCOLOGY AND PLANT DISEASES

Maximum : 30 MARKS

Answer ALL questions.

1) Forecasting.

2) Establishment of pathogens of plant.

3) Rust of groundnut.

4) Biological control of plant diseases.

5) Describe the morphological and physiological changes in plants?

6) Describe the role of enzyme, toxins and phytoalexins in pathogenesis in plants.

7) Explain Biopesticides in disease control?

8) Discuss the Blast disease of Rice and whip smut of sugarcane?

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(DBOT 23)

ASSIGNMENT - 1, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

BOTANY

PAPER — VII : CELL BIOLOGY AND MOLECULAR BIOLOGY

Maximum : 30 MARKS

Answer ALL questions.

1) Mitochondria.

2) Chloroplast.

3) Cancer.

4) Transposable elements.

5) Explain the structure of plasma membrane?

6) Describe the structure of Golgi complex?

7) Explain the working model of Electron Microscopy?

8) Give an account an Genetics of cancer?

(DBOT 23)

ASSIGNMENT - 2, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

BOTANY

PAPER — VII : CELL BIOLOGY AND MOLECULAR BIOLOGY

Maximum : 30 MARKS

Answer ALL questions.

1) Conjugation.

2) Fine structure of gene.

3) Genetic code.

4) Transcription.

5) Describe the DNA as genetic material?

6) Describe Evolution of gene concept?

7) Give an account on DNA repair mechanism?

8) Write the account on gene Regulation in Eukaryotics?

(DBOT 24)

ASSIGNMENT - 1, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

BOTANY

PAPER — VIII : PLANT BIOTECHNOLOGY

Maximum : 30 MARKS

Answer ALL questions.

1) Scope of plant biotechnology

2) Meristem culture

3) Protoplast fusion

4) Somatic embryo

5) Write about various aspects involved in plant tissue culture.

6) Give a detailed account on embryogenesis.

7) Write an essay as cell suspension culture for the production of secondary metabolites.

8) Give a detailed account on somatic hybridization.

(DBOT 24)

ASSIGNMENT - 2, DEC - 2016.

M.Sc. (FINAL) SECOND YEAR DEGREE

BOTANY

PAPER — VIII : PLANT BIOTECHNOLOGY

Maximum : 30 MARKS

Answer ALL questions.

1) CDNA library

2) Cloning vectors

3) RAPD

4) Transgenic plant [Golden rice]

5) Give a detailed account on ai-vitro genetic engineering by r-DNA technology.

6) Write about amplication of DNA by polymerace chain reaction.

7) Explain the gene transfer methods in Agrobacterium mediated gene transfer.

8) Describe different types of direct gene transfer methods.