

ASSIGNMENT 1

M.Sc. DEGREE EXAMINATION, JUNE/JULY - 2020

(First Year)

BOTANY

Paper-I: Biology and Diversity of Algae, Bryophytes, Pteridophytes and Gymnosperms

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

- Q1)** Classification of Cyanophyta
- Q2)** Fossil Algae
- Q3)** Elaters
- Q4)** Gemmae Cups
- Q5)** Psilotom
- Q6)** Stele in Lycopsidea
- Q7)** Wood in Gnetum
- Q8)** Distribution of Gymnosperms

ASSIGNMENT 2

M.Sc. DEGREE EXAMINATION, JUNE/JULY - 2020

(First Year)

BOTANY

Paper-I: Biology and Diversity of Algae, Bryophytes, Pteridophytes and Gymnosperms

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

- Q1)** Describe the structure, reproduction and life cycle patterns of chlorophyta.
- Q2)** Describe the economic importance of algae.
- Q3)** Give an account of thallus organization, reproduction and evolutionary trends in hepaticopsida.
- Q4)** Give an account of thallus organization, reproduction and evolutionary trends in bryopsida.
- Q5)** Describe the structure and reproduction in Sphaenopsida.
- Q6)** Describe the structure and reproduction in Pteropsida.
- Q7)** Describe the reproduction and evolutionary tendencies in Bennettitales.
- Q8)** Classify Gymnosperms.



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Paper-II: Systematics of Angiosperms and Plant Ecology

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

- Q1)** Herbalists
- Q2)** Primitive flower in Engler and Prantl system of classification
- Q3)** Intraspecific category
- Q4)** Alkaloids
- Q5)** Energy flow
- Q6)** Homeostasis
- Q7)** Alternate energy sources
- Q8)** Continental drift

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BOTANY

Paper-II: Systematics of Angiosperms and Plant Ecology

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

- Q1)** Describe the present vegetation types and distribution.
- Q2)** Give a brief account of post-Darwinian systems of classifications.
- Q3)** Enumerate the salient features of plant nomenclature.
- Q4)** Explain the role of cytology in resolving taxonomic disputes.
- Q5)** Give an account of biogeochemical cycle with reference to nitrogen.
- Q6)** Write an essay on plant succession.
- Q7)** Explain the methods for the conservation of natural resources.
- Q8)** Describe the principles of plant geography.



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Paper-III: Cytology, Genetics and Plant Breeding

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

- Q1)*** Prokaryotic Cell
- Q2)*** Nucleolus
- Q3)*** Inversions
- Q4)*** Autopolyploids
- Q5)*** Tetrad Analysis
- Q6)*** Cytoplasmic Inheritance
- Q7)*** Plant Introduction
- Q8)*** Clonal Selection

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Paper-III: Cytology, Genetics and Plant Breeding

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

- Q1)** Give an account of cell cycle in eukaryotes.
- Q2)** Write an essay on karyotype evolution.
- Q3)** Describe the numerical alterations in chromosomes.
- Q4)** Describe the evolution of major crop plants.
- Q5)** Explain the salient features of chi-square test for goodness of fit.
- Q6)** Explain the role of mutations in plant breeding.
- Q7)** Describe the breeding methods in self pollinated crops.
- Q8)** Describe the breeding methods in cross pollinated crops.

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BOTANY

Paper-IV: Plant Physiology and Metabolism

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

- Q1)** Membrane Transport Proteins.
- Q2)** Cohesion Theory.
- Q3)** Km Value.
- Q4)** ATP Synthesis.
- Q5)** Glyoxalate Cycle.
- Q6)** Mechanism of Nitrogen Fixation.
- Q7)** Signal transduction.
- Q8)** HR and SAR processes.

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Paper-IV: Plant Physiology and Metabolism

MAXIMUM MARKS :30

ANSWER ALL QUESTIONS

- Q1)** Describe translocation of water.
- Q2)** Explain the role of macro and micro nutrients.
- Q3)** Describe the mechanism of electron and proton transport.
- Q4)** Write an essay on glycolysis.
- Q5)** Give the classification of proteins and their synthesis.
- Q6)** Describe the structure and functions of storage and membrane lipids.
- Q7)** Write an essay on photoperiodism and role of vernalisation.
- Q8)** Describe the physiological effects and mechanism of auxins and gibberellins.

