

ASSIGNMENT - 1, DEC - 2016.

M.Sc. (PREVIOUS) FIRST YEAR DEGREE

BOTANY

PAPER-I : BIOLOGY AND DIVERSITY OF ALGAE, BRYOPHYTES,

PTERIDOPHYTES AND GYMNOSPERM

Maximum : 30 MARKS

Answer ALL questions.

- 1) Charophyta
  - 2) Fragmentation
  - 3) Bacillariophyta
  - 4) Thallus range in Bryophytes
  - 5) a) Describe reproductive patterns in xanthophyta.
  - 6) Write the life cycle in phaeophyta.
  - 7) Describe the reproduction in Anthocerotopsida.
  - 8) Explain the Reproduction in Hepaticopsida.
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PAPER-I : BIOLOGY AND DIVERSITY OF ALGAE, BRYOPHYTES,

PTERIDOPHYTES AND GYMNOSPERM

Maximum : 30 MARKS

Answer ALL questions.

- 1) Evolutionary trends in Hepaticopsida
  - 2) Classification of pteridophytes
  - 3) Fossil Gymnosperms
  - 4) Cycadales
  - 5) Describe the fossil pteridophytes.
  - 6) Describe the reproduction patterns in pteropsida.
  - 7) Write the general characters of coniferales.
  - 8) Explain Economic importance of Gymnosperms
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PAPER- II — SYSTEMATICS OF ANGIOSPERMS AND PLANT ECOLOGY

Maximum : 30 MARKS

Answer ALL questions.

- 1) Mesophytes
  - 2) Dicots
  - 3) Phytochemistry
  - 4) Food chains
  - 5) Write the vegetation types and distribution in the present.
  - 6) Write the account of pre-Darwinian systems of classifications.
  - 7) Principles of plant taxonomy and nomenclature.
  - 8) Give an account of anatomy and cytology to taxonomy.
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**PAPER- II — SYSTEMATICS OF ANGIOSPERMS AND PLANT ECOLOGY**

**Maximum : 30 MARKS**

**Answer ALL questions.**

- 1) Nitrogen cycle
  - 2) Succession
  - 3) Floristic regions of in India
  - 4) Alterate and additional energy sources
  - 5) Discuss the energy flow and homeostasis.
  - 6) Discuss the types of succesion in plant communities.
  - 7) Discuss the environmental pollution – causes and control.
  - 8) Write the account an edemism and continental drift.
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**PAPER- III — CYTOLOGY, GENETICS AND PLANT BREEDING**

**Maximum : 30 MARKS**

**Answer ALL questions.**

- 1) Banding patterns
  - 2) Telomere
  - 3) Deficiency and inversion
  - 4) Aneuploids
  - 5) Write the account on chromosome structure and packing of DNA.
  - 6) Describe the Euchromatin and Heterochromatin.
  - 7) Describe origin, occurrence production and meiosis of haploids.
  - 8) Describe the auto and allopolyploids.
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**PAPER- III — CYTOLOGY, GENETICS AND PLANT BREEDING**

**Maximum : 30 MARKS**

**Answer ALL questions.**

- 1) Interation of genes
  - 2) Probability - laws
  - 3) Pure line selection
  - 4) Recurrent
  - 5) Write the account on sex determination mechanisms in plants and man.
  - 6) Describe the sex-limited inheritance.
  - 7) Explain the plant introduction and pedigree methods.
  - 8) Give an account on Bulk and Back cross methods.
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**PAPER- IV — PLANT PHYSIOLOGY AND METABOLISM**

**Maximum : 30 MARKS**

**Answer ALL questions.**

- 1) Bulk flow.
  - 2) Components of water potential.
  - 3) Chloroplast.
  - 4) CAM pathway.
  - 5) Explain the Osmosis and water potential?
  - 6) Describe facilitated diffusion and active processes of Inorganic nutrition?
  - 7) Describe the mechanisms of electron and proton transport?
  - 8) Explain the pentose phosphate pathway?
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PAPER- IV — PLANT PHYSIOLOGY AND METABOLISM

Maximum : 30 MARKS

Answer ALL questions.

- 1) Symbiotic microorganisms.
  - 2) Soil nitrogen sources.
  - 3) ABA.
  - 4) Heat shock proteins.
  - 5) Describe the protein classifications?
  - 6) Give an account on  $\beta$ -oxydation and glyoxylate cycle.
  - 7) Give an account on ABA and Ethylene effects and mechanism of actions?
  - 8) Describe the photoperiodism and vernalisation?
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