

(DBOT 01(NR))

ASSIGNMENT - 1, DEC - 2018.

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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ASSIGNMENT - 2, DEC - 2018.

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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 β -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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