2023

BOTANY — HONOURS

Paper: DSCC-1 Full Marks: 75

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

MURALIDHAR GIRLS' COLLEGE 1. Answer any six of the following: LIBRARY (a) What is meant by RNA world? (b) Mention the pigments responsible for blue-green coloration in Cyanophyceae. 2 2 (c) What is dolipore septum? 2 (d) Distinguish between ascus and basidium. (e) Give one example of a thallose bryophyte and a foliose bryophyte. 1 + 1(f) Define sorus. Where is it found? 1 + 1(g) What are progymnosperms? Give one example. 1+1(h) What are syngenesious and synandrous stamens? 1+1 (i) Mention two distinguishing features of balausta and hesperidium. 2. Answer any three of the following: (a) Explain the role of plants in carbon sequestration. (b) Characterize Basidiomycotina. Name two fungi which are used as food. 3+2 (c) State the diagnostic features of Anthocerotopsida. Why bryophytes are known as 'amphibians of plant kingdom'? 3+2(d) State the importance of pteridophytes as sources of food, medicine and in agriculture. 5 (e) Describe briefly various types of placentation with suitable examples. 5 Answer any four of the following: (a) Comment on the criteria and basis of Fritsch's Classification (1935). State the salient features of Cyanophyceae and Rhodophyceae. (b) Give an outline of the classification of fungi as proposed by Ainsworth (1973) up to subdivision. Comment on the importance of lichens and mycorrhizae in human welfare and agriculture. 6+(3+3)

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- (c) Compare Lycophyta and Sphenophyta. Distinguish microphylls and megaphylls with examples. Distinguish eusporangiate and leptosporangiate ferns.
- (d) Write the salient features of Coniferophyta and Gnetophyta. Why Gnetophyta are considered as advanced among gymnosperms? State the essential oil yielding plants of gymnosperms and their
- (e) What do you mean by aestivation? Draw and describe various types of aestivation with suitable examples.
- MGC Librar (f) Draw and describe various forms of gamopetalous corolla with examples. Distinguish albuminous and exalbuminous seeds with examples.

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