2026

M.Sc. 2nd Semester Examination

BOTANY

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Paper : BOTC451X0

[Plant Taxonomy and Systematics]

Full Marks : 50 Time : Two Hours

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

Group - A

Answer any ***four*** questions : 2×4=8

1. Define taxon.
2. What is homoplasy?
3. Define cline.
4. Define Flora and cite an example.
5. Explain monophyly.
6. Mention the meaning of "CAL".

P.T.O.

Group - B

Answer any ***four*** questions : 4×4=16

7. Distinguish between taxonomy and systematics.
8. Write short notes on plesiomorphy and apomorphy.
9. Describe basal angiosperms.
10. Write a short note on Indian hotspots.
11. Write the principles of ICN.
12. Mention the importance of palynology in taxonomy with example.

Group - C

Answer any ***two*** questions : 8×2=16

13. Represent a broad outline of the APG IV system of classification and discuss its merits and limitations. 5+1½+1½
14. Discuss on the levels and importance of biodiversity. 3+5
15. Discuss on the numerical taxonomy and cladistic study. Write their significance. 4+4
16. Define traditional herbarium and digital herbarium and mention their merits and demerits, respectively. 4+4

[Internal Assessment : 10 marks]

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