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PG CBCS
M.Sc. Semester-IV Examination, 2022
BOTANY
 PAPER: BOT 402A (SPL PAPER)
 (ANGIOSPERM TAXONOMY)

Full Marks: 40

Time: 2 Hours

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

GROUP-A

- 1. Answer any four of the following:** 2×4=8
- a) Distinguish between paraphyly and holophyly.
 - b) What are eudicots?
 - c) Define phylocode
 - d) What are sementides?
 - e) Distinguish α and β diversity.
 - f) Distinguish between invasion and introduction.
 - g) Distinguish parallelism and convergence.
 - h) What does it mean by typification?

GROUP-B

- 2. Answer any four of the following:** 4×4=16
- a) Write a short note on nomenclature types. 4
 - b) Write notes of biosphere reserve and national park. 2+2
 - c) Define hot-spot. Write the causes of loss of biodiversity? 1+3
 - d) Write short note on micromorphological characters used in taxonomy. 4
 - e) Mention the categories of IUCN red list of species. 4
 - f) Briefly write down about APG system of flowering plant classification. 4
 - g) Why India is called megadiversity country? Discuss 1+3
 - h) What is serotaxonomy? Give the importance of it in taxonomic study. 1+3

GROUP-C

- 3. Answer any two questions:** 8×2=16
- a) Discuss the significance of palynological characters in solution of taxonomic problem.
 - b) What is cryopreservation? Discuss the different types of cryopreservation process. State the importance of cryopreservation. 2+4+2
 - c) Write the role of botanical survey of India for taxonomic study and ex-situ conservation. 5+3
 - d) Define phytogeography. Mention the major characteristics and features of terrestrial biomes. Write the types of phytogeographic zones of India based on floristic composition. 2+2+4

