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4 SEM TDC BOTH (CBCS) C 10

2026

(May/June)

BOTANY

(Core)

Paper : C-10

(Plant Systematics)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

*The figures in the margin indicate full marks
for the questions.*

1. (a) Choose the correct answer of the following : 1×3=3

(i) The term 'taxonomy' was coined by A. P. de Candolle / Carolus Linnaeus / Julian Huxley.

(ii) The inflorescence of Marigold is Corymb / umbel / capitulum.

(iii) The author of *The Flora of British India* is Kanjilal et. al / N. L. Bor / Sir J. D. Hooker.

(2)

(b) Fill in the blanks of the following : $1 \times 2 = 2$

(i) When the anthers and filaments of stamens are united it is called _____.

(ii) Inflorescence of the family Lamiaceae is _____.

2. Write short notes on any four of the following : $4 \times 4 = 16$

- (a) E-flora
- (b) Author citation
- (c) Single-access key
- (d) OTUs
- (e) Phylogenetic tree
- (f) Virtual herbarium

3. What is cytotaxonomy? Discuss how cytological data helps in plant taxonomy. $2 + 10 = 12$

Or

Write morphological characters and economic importance of the following families : $6 \times 2 = 12$

- (a) Orchidaceae
- (b) Magnoliaceae

4. By mentioning its merits and demerits, discuss Bentham and Hooker system of classification. $4 + 8 = 12$

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(Continued)

(3)

Or

Write explanatory notes on the following : $6 \times 2 = 12$

- (a) Herbarium technique
- (b) Taxonomic hierarchy

5. Define species. Discuss biological and evolutionary species concept in brief. $1 + 3\frac{1}{2} + 3\frac{1}{2} = 8$

Or

Write notes on the following : $4 \times 2 = 8$

- (a) Contribution of Linnaeus towards plant taxonomy
- (b) Origin and evolution of angiosperms

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