

Bachelor of Science (B.Sc.) Semester–III (C.B.S.) Examination

BOTANY (Angiosperm Taxonomy)

Paper–I

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) **All** questions are compulsory and carry equal marks.

(2) Illustrate your answer with suitable examples and diagrams wherever necessary.

(3) Floral diagram and floral formula is expected in floral characters.

1. Write on :

- | | |
|---------------------------|---|
| (a) <i>Sahanianthus</i> | 5 |
| (b) Benettitalean theory. | 5 |

OR

Write short notes on :

- | | |
|---------------------------------------|-----|
| (c) Indented key | 2.5 |
| (d) Principle of priority | 2.5 |
| (e) <i>Enigmocarpon</i> | 2.5 |
| (f) Proteins in relation to taxonomy. | 2.5 |

2. Write on :

- | | |
|--|---|
| (a) Outline of Bentham and Hooker's system of classification and its merits. | 5 |
| (b) Natural and phylogenetic system of classification. | 5 |

OR

Write short notes on :

- | | |
|--|-----|
| (c) Demerits of Bentham and Hooker's system of classification. | 2.5 |
| (d) Outline of Engler and Prantl's system of classification. | 2.5 |
| (e) Artificial system of classification. | 2.5 |
| (f) Merits and demerits of Engler and Prantl's system of classification. | 2.5 |

3. Write on :

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|--|---|
| (a) Floral characters of <i>Caesal pinoideae</i> | 5 |
| (b) Floral characters of <i>Brassicaceae</i> . | 5 |

OR

Write short notes on :

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|---|-----|
| (c) <i>Papilionaceous Corolla</i> . | 2.5 |
| (d) Economic importance of <i>Ranunculaceae</i> . | 2.5 |
| (e) Floral formula and floral diagram in <i>Mimosoideae</i> . | 2.5 |
| (f) Economic importance of <i>Papilionoideae</i> . | 2.5 |

4. Write on :

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|--|---|
| (a) Capitulum inflorescence | 5 |
| (b) Floral characters of Alismataceae. | 5 |

OR

Write short notes on :

- | | |
|--|-----|
| (c) Cyathium inflorescence | 2.5 |
| (d) Pollinia | 2.5 |
| (e) Economic importance of Poaceae | 2.5 |
| (f) Floral formula and floral diagram in Asclepiadaceae. | 2.5 |

5. Write in **two** or **three** lines only (any **ten**). Diagrams are not necessary.

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|----------------------|---------|
| (a) OTU | |
| (b) Cytotaxonomy | |
| (c) Identification | |
| (d) Genera Plantarum | |
| (e) Archichlamydeae | |
| (f) Cohorts | |
| (g) Spur | |
| (h) Replum | |
| (i) Lomentum | |
| (j) Gynostegium | |
| (k) Lodicule | |
| (l) Regma. | 1×10=10 |