

**M.Sc. Part-II Semester-III (CBCS) Examination
BOTANY
TAXONOMY OF ANGIOSPERMS
Paper-X**

Time : Three Hours]

[Maximum Marks : 80

- N.B.:**— (1) All questions are compulsory.
(2) All questions carry equal marks.
(3) Draw well labelled diagrams wherever necessary.

1. Write a comprehensive account of Hutchinson's system of classification. 16

OR

Give an account of Engler & Prantl's system of classification of Angiosperms. Add note of its merits and demerits. 16

2. Explain :

- (a) Concept of population 6
(b) Differentiation of species 5
(c) Ecads & Ecotypes 5

OR

- (d) Speciation 6
(e) Intrapopulation variations 5
(f) Population density. 5

3. Discuss in detail the principles and rules of International code of botanical nomenclature. 16

OR

- (g) Explain in detail taxonomic hierarchy 8
(h) Genus and species concept. 8

4. Explain floral structure and systematic position of :

- | | |
|------------------|---|
| (i) Cactaceae | 6 |
| (j) Magnoliaceae | 5 |
| (k) Fabaceae | 5 |

OR

- | | |
|--------------------|---|
| (l) Poaceae | 6 |
| (m) Lamiaceae | 5 |
| (n) Cucurbitaceae. | 5 |

5. Write on :

- | | |
|---------------------------------------|---|
| (o) Floral structure of Asclepidaceae | 6 |
| (p) Salient features of Cannaceae | 5 |
| (q) Economic importance of Asteraceae | 5 |

OR

- | | |
|--|---|
| (r) Floral structure of Orchidaceae | 6 |
| (s) Salient features of Nyctaginaceae | 5 |
| (t) Difference between Poaceae & Cyperaceae. | 5 |