

AU-388

**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. Discuss Cronquist system of classification. Add note on merits and demerits. 16

**OR**

Explain Bessey's Cactus in detail. Add note on its merits and demerits. 16

2. Write on :

- (a) Environmental Variation 5  
 (b) Speciation 5  
 (c) Ecads and Ecotypes. 6

**OR**

- (d) Genetic Variation 6  
 (e) Causes of variation in population 5  
 (f) Isolation mechanism. 5

3. Explain :

- (g) Principles of ICBN 6  
 (h) Biological Species Concept 5  
 (i) Author citation 5

**OR**

- (j) Taxonomic Hierarchy 6  
 (k) Valid publication 5  
 (l) Typification. 5

4. Describe the salient features and floral structure of leguminosae. Add note on its systematic position. 16

OR

Describe the salient features of cactaceae with special reference to floral structure. Discuss its phylogeny and interrelationship. 16

5. Explain floral structure and systematic position of :

- |                  |   |
|------------------|---|
| (m) Loranthaceae | 5 |
| (n) Orchidaceae  | 5 |
| (o) Poaceae      | 6 |

OR

- |                   |   |
|-------------------|---|
| (p) Asteraceae    | 6 |
| (q) Canaceae      | 5 |
| (r) Polygonanceae | 5 |