

**NTK/KW/15/5829**

**Bachelor of Science (B.Sc.) Semester—III  
Examination  
BOTANY (Angiosperm Taxonomy)  
Paper—I**

Time—Three Hours]

[Maximum Marks—50

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

1. Write on :

- (a) Benettitalean theory of angiosperm origin 5  
(b) *Sahanianthus* flower 5

**OR**

Write short notes on :

- (c) Indented key 2.5  
(d) Principles of botanical nomenclature. 2.5  
(e) Taxonomic ranks 2.5  
(f) *Enigmocarpon*. 2.5

2. Write on :

- (a) Engler and Prantl's system of classification 5  
(b) Outline of Bentham and Hooker's system of classification. 5

**OR**

Write short notes on :

- (c) Merits and demerits of Bentham and Hooker's system 2.5  
 (d) Natural system of classification 2.5  
 (e) Merits and demerits of Engler and Prantl's system 2.5  
 (f) Phylogenetic system of classification. 2.5

3. Write on :

- (a) Floral characters of Ranunculaceae 5  
 (b) Floral characters of Brassicaceae 5

**OR**

Write short notes on :

- (c) Economic importance of Papilionoideae 2.5  
 (d) Floral characters of Caesalpinoideae 2.5  
 (e) Economic importance of Brassicaceae 2.5  
 (f) Floral diagram and floral formula of Papilionoideae. 2.5

4. Write on :

- (a) Floral characters of Asteraceae 5  
 (b) Economic importance of Poaceae 5

**OR**

Write short notes on :

- (c) Cyathium inflorescence 2.5  
 (d) Floral diagram and floral formula of Asclepiadaceae 2.5  
 (e) Economic importance of Asteraceae 2.5  
 (f) Floral characters of Alismataceae. 2.5

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

- (a) ICBN  
 (b) Cytotaxonomy  
 (c) Epiphyllous  
 (d) Sympetalae  
 (e) Cohort  
 (f) Polypetalae  
 (g) Replum  
 (h) Staminodes  
 (i) Legume  
 (j) Pappus  
 (k) Pollinia  
 (l) Apocarpous. 1×10=10