

KNT/KW/16/5114

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 answers with suitable examples and diagrams wherever necessary.

(3) Floral diagrams and floral formulae is expected in floral characters.

1. Write notes on :— 5×2
- (a) Benettitalean theory
- (b) Indented and bracketed keys.

OR

- Write short notes on :— 2½×4
- (c) Principle of priority
- (d) *Sahnianthus*
- (e) Karyotype
- (f) *Enigmocarpon*.

2. Write notes on :— 5×2
- (a) Outline of Engler and Prantl's system of classification
- (b) Merits and demerits of Bentham and Hooker's system of classification.

OR

- Write short notes on :— 2½×4
- (c) Merits and demerits of Engler and Prantl's system of classification
- (d) Artificial system of classification
- (e) Natural system of classification
- (f) Phylogenetic system of classification.

3. Write notes on :— 5×2
- (a) Floral characters of Ranunculaceae
- (b) Floral characters of Mimosoideae.

OR

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(Contd.)

Write short notes on :—

2½×4

- (c) Economic importance of Brassicaceae
- (d) Papilionaceous corolla
- (e) Economic importance of Papilionoideae
- (f) Floral formula and floral diagram of Caesalpinioideae.

4. Write notes on :—

5×2

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

OR

Write short notes on :—

2½×4

- (c) Spikelet inflorescence
- (d) Floral formula and floral diagram of Asclepiadaceae
- (e) Economic importance of Euphorbiaceae
- (f) Cyathium inflorescence.

5. Write in 2 of 3 lines (Diagrams are not necessary) any **TEN** :—

1×10

- (a) Flavonoids
- (b) Nomenclature
- (c) Taxonomic rank
- (d) Cohort
- (e) Gamopetalae
- (f) Genera plantarum
- (g) Diadelphous condition
- (h) Legume
- (i) Tetradynamous condition
- (j) Gynostegium
- (k) Cypsella
- (l) Caryopsis.