

**Bs/BCC-10 (T)**

**2024**

**( FYUGP )**

**( 5th Semester )**

**BOTANY**

**( Major )**

**Paper Code : BCC-10**

**( Plant Systematics )**

**Full Marks : 75**

**Pass Marks : 40%**

**Time : 3 hours**

***The figures in the margin indicate full marks  
for the questions***

- 1. (a) Write a note on plant systematics.  
Explain the systematic evidence from  
cytology. 7½+7½=15**

**Or**

- (b) Write short notes on any two of the  
following : 7½×2=15**

- (i) Virtual herbarium**
- (ii) Taxonomical keys**
- (iii) Monographs**

2. (a) Conduct a study of the family Asteraceae with emphasis on identification techniques using flora references. 15

Or

- (b) Mention the economic importance of the families Orchidaceae, Ranunculaceae and Brassicaceae. 15

3. (a) Explain the different species concepts. 15

Or

- (b) Write short notes on any *two* of the following :  $7\frac{1}{2} \times 2 = 15$

(i) Principles and rules of ICN

(ii) Principles of priority and its limitations

(iii) Effective and valid publication

4. (a) Write notes on the following :  $7\frac{1}{2} + 7\frac{1}{2} = 15$

(i) Angiosperm phylogeny group (APG III) classification

(ii) Contribution of Hutchinson in system of classification



( 3 )

Or

(b) Write the classification of Bentham and Hooker (up to family). 15

5. (a) Differentiate between the following :  
7½×2=15

(i) Homology and analogy

(ii) Monophyly and Paraphyly

Or

(b) Explain the origin and evolution of Angiosperms. 15

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