2024

B.A./B.Sc.

Fourth Semester

CORE - 10

BOTANY

Course Code: BOC 4.31 (Plant Systematics)

Total Mark: 70 Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

(a) Discuss the importance of description in the studies of plant taxonomy.
 (b) Describe the role of cytology in solving taxonomic problem with examples.

2. (a) What is an herbarium? Mention the important functions of herbarium.

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(b) Write a note on taxonomic literatures.

7

UNIT-II

- 3. Write three important spot identifying morphological characters and draw floral diagram of the family: $7\times2=14$
 - (a) Lamiaceae
 - (b) Solanaceae
- 4. Write the systematic position and floral formula of the family: $7\times2=14$
 - (a) Brassicaceae
 - (b) Rutaceae

UNIT-III

5. What is taxonomic hierarchy? Discuss the different concepts of species.

2+12=14

6.	(a) What is author citation? Describe the various rules of author citation?(b) What is the difference between Lectotype and Paratype type specimen?	tation. +8=10
UNIT-IV		
7.	Write the salient features, outline and merits and demerits of Bentha and Hooker system of classification.	am 14
8.	Write a summary on the following: (a) Hutchinson system of classification (b) APG system of classification UNIT-V	×2=14
9.		×2=14
10.	(a) Describe the process of assessment of characters according to numerical taxonomy.(b) What are OTUs? How are the OTUs selected?	8 6