

**B.Sc (Bio Technology) - 2nd Semester (old sylb 2019-20)**

(2721)

**Paper: BT-2 Botany-B**

Time Allowed: 2 hrs.

Max. Marks: 40

**Note: There are EIGHT questions of equal marks. Candidates are required to attempt any FOUR questions.**

**Section -A**

1. Describe the classification of angiosperms as proposed by Bentham and Hooker. What are its merits and demerits?
2. Write in brief about (a) Mother axis (b) Polyadelphous condition (c) Papilionaceous corolla (d) Stylopodium of coriander.

**Section -B**

3. Give the botanical name, family, floral formula and floral diagram of the following genera (a) *Brassica* (c) *Ocimum*.
4. State the characteristic feature of family Umbelliferae with a suitable example.

**Section -C**

5. What type of fruit is found in family poaceae? Describe the family poaceae in technical details by taking suitable example studied by you.
6. Discuss in detail about evolutionary status of families Compositae and Orchidaceae.

**Section -D**

7. Elaborate the concept of seed testing with special reference to tests designed to determine quality of seeds.
8. Define the term 'seed biology'. Discuss the structure and development of dicot and monocot seeds.