

Exam. Code : 103203

Subject Code : 1304

B.A./B.Sc. 3rd Semester

BOTANY

(Structure, Development and Reproduction in
Flowering Plants—II)

Paper—IIIB

Time Allowed—3 Hours]

[Maximum Marks—35

Note :— Candidates are to attempt **5** questions, **one** from each Section. **Fifth** question may be attempted from any Section. **All** questions carry equal marks.

SECTION—A

1. Discuss in detail structural modifications in roots for storage. 7
2. (a) Give diagrammatic representation of L.S. root-tip and label its different parts.
- (b) Enlist important differences in primary and secondary tissues. 3.5+3.5

SECTION—B

3. Write short notes on the following and give example of each kind :
 - (a) Bilabiate flower
 - (b) Flower of a grass
 - (c) Zygomorphic flower. 3+2+2

4. Describe different types of grafting methods used in plant propagation. What is the economic value of using grafting ? 7

SECTION—C

5. Differentiate between cleistogamous and chasmogamous flowers. Can cross-pollination occur in cleistogamous flowers ? Give reasons for your answer. 7
6. Describe different floral mechanisms adopted by plants which favour cross-pollination in bisexual flowers. 7

SECTION—D

7. Briefly describe pollination mechanisms adopted by Water Hyacinth, *Vallisnaria* and Sea grasses as *Zostera*. 7
8. Discuss in detail different events leading to development and maturation of fruits. 7