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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.

- 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

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(Contd.)

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

SECTION-C

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

SECTION-D

- Briefly describe pollination mechanisms adopted by Water Hyacinth, *Vallisnaria* and Sea grasses as *Zostera*.
- Discuss in detail different events leading to development and maturation of fruits.
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 (b) (Indextantionana diferences in primary and secondary disease)

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(ii) Bilabiate-flower

*(b) HIOVETING (C)

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