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Exam. Code : 210003

Subject Code: 3796

M.Sc. Botany 3rd Semester BOT-C617: PLANT MORPHOGENESIS

Time Allowed—3 Hours] [Maximum Marks—50 SECTION—A

Note:—Attempt ALL the parts.

- 1. (i) How polarity is expressed in internal structures?
 - (ii) What do you mean by genetic correlations?
 - (iii) What is dorsiventral symmetry?
 - (iv) Define differentiation without growth.
 - (v) What do you mean by stock?
 - (vi) What are amorphous structures?
 - (vii) Name the genetic morphogenetic factors in plants.
 - (viii) Define somatic mutations.

 $1\times8=8$

SECTION—B

Note: — Attempt any seven questions.

- 2. What do you know about physiological correlations?
- 3. Explain expression of polarity in isolated cells.
- 4. Explain the development of abnormal organs.
- 5. Describe the bilateral symmetry by giving suitable examples.

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- 6. Discuss the role of physical factors in plant growth.
- 7. Describe regeneration in higher plants.
- 8. Explain physiological differentiation.
- 9. What are developmental patterns of polarity?
- 10. Differentiate between external and internal differentiation.
- 11. What are chimeras?

 $3 \times 7 = 21$

SECTION—C

Note: — Attempt any three questions.

- 12. Describe stock and scion interrelationships in plants.
- 13. Discuss the role of physical morphogenetic factors in plants growth.
- 14. Describe the development of symmetry.
- 15. Explain the production of new types of organized structures in plants.
- 16. Discuss the differentiation during ontogeny of plants.

 $7 \times 3 = 21$