

(041430102)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2017

THIRD SEMESTER

Branch - Botany

Paper I — PLANT DEVELOPMENT

Time : 3 Hours

Max. Marks : 70

PART - A

Answer any FIVE of the following.

(Marks : 5 × 4 marks = 20 marks)

1. Statolith theory.
2. Plastochron.
3. Kranz Anatomy.
4. Vascular cambium.
5. Lateral root formation.
6. Hydathode.
7. Apical meristem.
8. Differences between Xylem and Phloem.

PART - B

Answer ONE question from each Unit.

(Marks : 4 × 12.5 marks = 50 marks)

UNIT - I

9. (a) What is morphogenesis? Write briefly the process of morphogenesis in plant development.

Or

- (b) Give an account of Differentiate types of mechanical tissues system in plants.

UNIT - II

10. (a) Write about different theories of root apical meristem.

Or

- (b) What is Quistent centre? Give an account of quistent centre and its significance in plants.

[P.T.O]

UNIT - III

11. (a) Write different types of steles in plants.

Or

(b) What is abnormal secondary growth? Give briefly the abnormal secondary growth suitable examples.

UNIT - IV

12. (a) Give an account of development and anatomy of flower.

Or

(b) Write briefly the histology and tissue differentiation in leaf.

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