

(041430202)

M.Sc. DEGREE EXAMINATION, NOVEMBER 2017

THIRD SEMESTER

Branch - Botany

Paper II — PLANT REPRODUCTION

Time : 3 Hours

Max. Marks : 70

PART - A

Answer any FIVE questions. Each question carries 4 marks.

(Marks : 5×4 marks = 20 marks)

1. Vegetative options
2. Pollen allergy
3. Ovule development
4. Vectors
5. Fruit growth
6. Polyembryony
7. Endosperm desiccation
8. Gametic transformation.

PART - B

Answer ONE question from each Unit.

(Marks : 4×12.5 marks = 50 marks)

UNIT - I

9. (a) Write a note on genes controlling floral organ differentiation.

Or

(b) Mention the role of tapetum in pollen development.

UNIT - II

10. (a) Discuss the development and organization of embryo sac.

Or

(b) Describe the sporophytic and gametophytic self incompatibility.

[P.T.O]

UNIT - III

11. (a) Write a brief account on embryogenesis.

Or

(b) Explain the types of embryos in Angiosperms.

UNIT - IV

12. (a) Bring out the salient features of test tube plants.

Or

(b) Describe the *in vitro* culture of ovary.
