

Nov-2017
M.Sc. Botany (Life Science)

Semester - III - Theory Examination

Paper - 11: Plant Development and Reproduction

Time: 2.30 Hrs

Subject code: 3688

Total Marks: 70

INSTRUCTIONS: (1) Draw a labeled diagram where ever it is necessary.
(2) Figure on right side indicates marks of question.

- Q.1 (a) Write a note on Tunica- Corpus Theory of Shoot Apical Meristem. (7)
(b) Describe: Anaphase and Metaphase of cell cycle. (7)

OR

- Q.1 Describe gross structure and chemical composition of plant cell wall. (14)

- Q.2 (a) Describe the structure of phloem. (7)
(b) Write a note on secretory ducts. (7)

OR

- Q.2 Define Stomata and describe different types of stomata. (14)

- Q.3 (a) Write a note on root apical meristem. (7)
(b) Describe: Root and microbe interaction. (7)

OR

- Q.3 Describe artificial method of Vegetative propagation. (14)

- Q.4 (a) Describe the structure of anther. (7)
(b) Explain structure of the embryo sac. (7)

OR

- Q.4 Write a note on tapetum and its function. (14)

- Q.5 (a) Describe: Polyembryo. (7)
(b) Write a note on reserved food of endosperm. (7)

OR

- Q.5 Define Seed dormancy and explain causes of seed dormancy. (14)