

# M.Sc. Life Sciences Semester – III (BOTANY) Examination

October / November 2015

## Plant Development and Reproduction Paper - XI

Subject code: 3688

Time: 2.30 Hour

Total marks: 70

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

Que. 1	(a) Write a note on plant cell wall.	7
	(b) Describe different zone of shoot apical meristem.	7
	OR	
Que. 1	Write a note on Tunica-corpus theory of SAM.	14
Que. 2	(a) Explain: secretory ducts.	7
	(b) Write a note on phloem.	7
	OR	
Que. 2	Write a note on xylem elements in angiosperm wood.	14
Que. 3	(a) Write a note of grafting.	7
	(b) Explain the methods for layering and cutting.	7
	OR	
Que. 3	Describe the organization of root apical meristem.	14
Que. 4	(a) Describe: Endosperm	7
	(b) Describe: Embryo sac	7
	OR	
Que. 4	(a) Describe: Male gamatophyte	7
	(b) Explain Megasporogenesis	7
Que. 5	(a) Describe: Polyembryony	7
	(b) Describe: Dicot embryo	7
	OR	
Que. 5	Importance and types of seed and bud dormancy	14