

Reg. No.:		
Name :		
Il Semester M.Sc. Degree (CBSS – Reg./Suppl./l (2014 Admission Onwa BOTANY BOT2C 05 : Embryology, Palynology	ards)	
Time: 3 Hours	Max	x. Marks : 60
I. Answer any two of the following.		$(2 \times 8 = 16)$
 Explain in detail microsporogenesis and poller angiosperms. 	n development in	
OR		
2) Explain the classification and practical value of	f polyembryony.	
3) Give an account of centres of origin and divers	sity of crop plants.	
OR		
4) Write an account of major crops and their hybr	ids cultivated in Ker	ala.
II. Answer any two of the following.		(2×6=12)
5) a) Exine proteins.		1
b) Evolution of pollen types.		2
c) Establishment of symmetry in plants.		3
6) a) Define parthenocarpy.		1
b) Polygonum type of embryosac.		2
c) Adaptation of pollen grains.		3
7) a) Define Apomixis.		1
b) Storage metabolites of endosperm.		2

c) Variety release procedure.

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III. Answer any six of the following.

 $(6 \times 3 = 18)$

- 8) Process of megasporogenesis.
- 9) Nutrition of embryosac.
- 10) Post fertilization changes.
- 11) Biochemical changes during fruit maturation.
- 12) Recent advances in palynological studies.
- 13) Types of germplasm collection.
- 14) Breeding for disease resistance.
- 15) What are farmer rights?
- IV. Answer any seven of the following.

 $(7 \times 2 = 14)$

- 16) Amoeboid tapetum
- 17) Filiform apparatus
- 18) Cleavage polyembryony
- 19) Pollen recognition
- 20) Solid style
- 21) Pollen kitt
- 22) Helobial endosperm
- 23) Hybrids
- 24) NGO's
- 25) Genetics of resistance.