

K20P 0302

Reg. No. :	
(873=T8)	THAT 993 COLOR OF THE TEWERTA
Name :	Process of megasporogenesis
	 Reg./Suppl./Imp.) Examination, April 2020 mission Onwards) BOTANY
BOT2C 05 : Embryology	y, Palynology and Plant Breeding
Time : 3 Hours	serbola lacipolomico di secone Max. Marks: 60
I. Answer any two of the following.	sometales reason to path (2×8=16)
 Explain in detail microsporoge angiosperms. 	enesis and pollen development in
(FT=SXT) OR	
2) Explain the classification and	practical value of polyembryony.
3) Give an account of centres of	origin and diversity of crop plants.
OR	
4) Write an account of major cro	ps and their hybrids cultivated in Kerala.
II. Answer any two of the following.	(2×6=12)
5) a) Exine proteins.	zanaya (ss. 1
b) Evolution of pollen types.	. OOM (AZ 2
c) Establishment of symmetry	in plants.
6) a) Define parthenocarpy.	1
b) Polygonum type of embryo	sac. 2
 c) Adaptation of pollen grains 	. 3
7) a) Define Apomixis.	1
b) Storage metabolites of end	dosperm. 2

c) Variety release procedure.

3



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.