M.Sc. Semester-I (C.B.C.S. Scheme) Examination

BOTANY

(Plant Development and Reproduction)

Paper-IV

lim	e : I hr	ee Hours] [Maximu	m Marks : 80
Not	e :(All questions are compulsory and carry equal marks.	
	(Draw well labelled diagrams wherever necessary.	
1.	Give pathw	an elaborated account on construction of reserve food through constructive ays.	e biochemical
		OR	
		ss on physiological mechanisms in relation to dormancy of seeds. Add a not for breaking of dormancy.	te on methods 16
2.	Write	•	
	(a) 1	functional aspect of Root apical meristem.	5
		Role of different cambial cells in secondary growth.	5
		Laticifers and its role.	6
		OR	
	(d)	Organization of Shoot Apical Meristem (SAM).	. 5
	(e)	Ontological evidences of evolution of xylem.	- 5
	(f)	Cortical cambium.	6
3.	Write	on:	
	(g)	APETALA and AGAMOUS.	5
	(h)	Molecular basis of male sterility.	5
	(i)	Bisporic embryo sac development.	6
		OR	
	(j)	XO method of sex determination.	5
		Pollen embryo.	5
		Megasporogenesis.	6
4.	Write		
		Flower vectors.	5
		Role of breeding system in gene pool transfer.	. 5
	(0)	Types of endosperm.	6
		OR	
	• ,	Pollination rewards.	5
	-	Pollen pistil interaction.	5
		Physiology of fruit maturation.	
5.	Elab	orate on biochemical aspects of senescence.	16
	<i>~</i> .	OR	
	Give	detail accoount on polyembryony in relation to in-vitro plant regeneration.	16

