AQ - 818

First Semester M. Sc. (Part-I) Examination

BOTANY

Paper - IV

(Plant Development and Reproduction)

P. Pages: 2

Time : Titee Hotts]		rec rious j [Max. Marks	[Max. Marks : 60		
,	Note	e: (1) All questions are compulsory and cequal marks. (2) Draw well labelled diagram when necessary.	·		
1.	Expl	lain :			
	(a)	Unique differences between plant and ani	mal		
		development.	6		
	(b)	Physiological aspects of seed germinat	ion.		
	•		5		
	(c)	Methods of breaking seed dormancy.	5		
		OR			
	(d)	Seed structure.	5		
	(e)	Protein degradation.	5		
	(f)	Significance of seed dormancy.	6		
2.	Explain:—				
	(g)	Laticifers.	5		
	(h)	Secondary growth in plants.	5		
	(i)	Vascular cambium.	6		
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	(j) Root apical meristem.	6
	(k) Types of meristem in plants.	5
	(l) Secretory ducts.	5
3.	Explain :—	
	(m) Sex determination.	6
	(n) Homeotic mutants.	5
	(o) Types of ovules.	5
	OR	
	(p) Pollen viability tests.	5
	(q) Structure of ovule.	5
	(r) Flower development.	6
4.	Give an account of floral character in plantespect to structure and various vectors	
	flowers.	, ,,,,,,,,,
	OR	
	Discuss the various parameters from fruit	growth
	to Maturation.	16
5.	Explain Androgenesis mechanism. Add a nits significance.	ote on
	OR	
	Explain the mechanism of senescence in	plants.
	Add note on Role of Ethylene in senes	cence.
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