

BOTACOR11T-BOTANY (CC11)

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks. Candidates should answer in their own words as for as practicable All symbols are of usual significance.

1.		Answer <i>all</i> the following questions:			1×6 = 6
	(a)) Name a plant having aril in seed.			1,10 0
		 b) What is Ubisch bodies? c) What is Cybrid? d) Write the full form of MGU. e) What is massulae? 			
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	` '	f) What is the function of Suspensor?			
2.	Answer any <i>eight</i> questions from the following:				3×8 = 24
	(a)) What is Tapetum? Mention the functions of	Tapetum.		1+2
	(b)) What are the major causes for the loss of pollen viability?			3
	(c)	e) Why pollen of angiosperms is referred to as microspore? Illustrate the successive stage of microsporogenesis (labeled diagrams only).			
	(d)) Differentiate between Dichogamy and Herkogamy with examples.		3	
	(e)	e) If the haploid number of chromosome in a plant is 8, how many chromosomes would be there in —			3
		(i) Microspore mother cell (ii) Pollen	grains	(iii) Ovum	
		(iv) Embryo and (v) Endosp	berm		
	(f)) Differentiate between Amoeboid or Invasive Tapetum and Glandular Tapetum.		andular Tapetum.	3
	(g)) Mention in brief the scope of Palynology.			3
	(h)) Define albuminous and exalbuminous seeds with examples.			3
	(i)) Differentiate among Nuclear, Cellular and Helobial endosperm.			3
	(j)) Mention different Hydrochorous and Zoo example.	chorous type of	fruit dispersals with	3
	(k)) Mention the characteristics feature of Hydrophily and Entomophily take place.	the flowers,	where Anemophily,	3
	(1)) Distinguish Monosporic, Bisporic and Tetra	sporic type of em	bryo sac.	3

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3.		Answer any <i>two</i> questions from the following:	$5 \times 2 = 10$
	(a)	Write briefly the method applied to overcome self-incompatibility.	5
	(b)	Discuss briefly about changes associated with the formation of Inflorescence primordia from vegetative shoot apical meristem.	5
	(c)	Schematically represent NPC classification as proposed by Erdtman.	5
	(d)	What is Tectum? How the spore and pollen wall can be differentiated? Draw a schematic diagram of sporoderm following Erdtman and Faegri.	1+1+3

N.B.: Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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