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B.Sc. Honours 5th Semester Examination, 2021-22

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:	$1 \times 6 = 6$
	(a)	Name a plant having aril in seed.	
	(b)	What is Ubisch bodies?	
	(c)	What is Cybrid?	
	(d)	Write the full form of MGU.	
	(e)	What is massulae?	
	(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)	Why pollen of angiosperms is referred to as microspore? Illustrate the successive stage of microsporogenesis (labeled diagrams only).	2
	(d)	Differentiate between Dichogamy and Herkogamy with examples.	3
	(e)	If the haploid number of chromosome in a plant is 8, how many chromosome would be there in —	s 3
		(i) Microspore mother cell (ii) Pollen grains (iii) Ovum	
		(iv) Embryo and (v) Endosperm	
	(f)	Differentiate between Amoeboid or Invasive Tapetum and Glandular 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 Zoochorous type of fruit dispersals with example.	n 3
	(k)	Mention the characteristics feature of the flowers, where Anemophily Hydrophily and Entomophily take place.	, 3
	(1)	Distinguish Monosporic, Bisporic and Tetrasporic type of embryo 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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