AU-78

B.Sc. (Part-I) Semester-II Examination **APICULTURE**

(Bee Botany, Pollination and Mellitopalynology)				
Time : Tl	hree Hours]	[Maximum Marks : 80		
N.B. :-	All questions are compulsory and questions 2 to 7 carries equal	marks.		
1. (A)	Fill in the blanks:			
()	(i) Flowering plants belongs to sub Kingdom	. 1/2		
	(ii) Pollen contains two sperm.	1/2		
	(iii) Pollen basket present on leg of bee.	1/2		
	(iv) In insect are important.	1/2		
(B)	Choose correct option:			
. ,	(i) In Pollen wax layer present on:	1/2		
	(a) Inlihe			
	(b) Extine			
	(c) Tube.			
	(ii) Hydrophily done by :	1/2		
	(a) Water			
	(b) Insect			
	(c) Bird.			
	(iii) Pollination in same flower is known as:	1/2		
	(a) Self			
	(b) Geitonogamy			
	(c) Autogamy.			
	(iv) Which is bee plant:	1/2		
	(a) Rose			
	(b) Sunflower			
(0)	(c) Both.			
(C)	Answer in one sentence:	1		
	(i) What is bee botany?	l		
	(ii) What is Xenogamy?	1		
	(iii) What is entomophily?	1		
	(iv) What is nectar?	1		
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2.	(a)	Explain structure of flower.	4
	(b)	Give composition of nectar.	4
	(c)	Give morphology of flowering plant.	4
		OR	
	(d)	Explain classification of Kingdom plantae.	4
	(e)	Describe fertilization and development of embryo.	4
	(f)	Explain general classification of important bee plants.	4
3.	Disc	cuss cultivated crop, horticultural and wild bee flower plants with their flowering period. OR	12
	Giv	e the account o functional classification of bee flora and give names of each.	12
4.	(g)	Explain flowering gap.	4
	(h)	Explain dearth period and honey flow.	4
	(i)	Describe poisonous honey	4
	*7	OR	
	(j)	Explain formulation of local floral calender.	4
	(k)	Explain flowering sequence.	4
	(1)	Describe wild bee flora of Melghat forest.	4
5.	(m)	Explain method of preparation of Pollen slide.	4
	(n)	Describe morphology of Pollen	4
	(o)	Describe honey bee as a important pollinator.	4
		OR	
	(p)	Define mellitopalynology and write note on pollen basket.	4
	(q)	Describe pollen types.	4
	(r)	What is pollen load? Where it can be carries and stored.	4
6.	Def	ine pollination and discuss type of pollination followed by suitable examples.	12
		OR	
_		cuss pollinating agets.	12
7.	(s)		4
		Explain concept of migratory bee keeping.	4
	(u)	Explain method of conversion of nectar in to honey.	4
	, .	OR	
	(v)	Give composition of honey.	4
	. ,	Explain A. dorsata as wild bee.	4
	(\mathbf{x})	Explain placement of bee colonies in farm.	- 4