B.Sc. Part—I (Semester—II) Examination APICULTURE

				(Bee Botany, I	Pollination and Me	ellitto	Palynology)	
Time : Three Hours] [Maximum M							ks : 80	
1	N.B	. :	(2)	Question Nos. 2 t	compulsory and car of carry equal mand diagrams wherever	rks.		
1. ((a)	Fill in the blanks:						
		(i)	The	pollination by inse	cts is known as]	pollination.	1/2
		(ii)	The	plant kingdom is d	ivided into two gro	ups _	and phanerogams.	1/2
		(iii)	Poll	len grains transfer f	rom anther to	of	a flower is known as pollinat	ion.
					`			1/2
		(iv)	Bee	s collect ar	id from flow	ver.		1/2
((b)	Cho	ose c	correct alternatives :	:			
		(v)		is one of the a	applied branches of	Palyn	ology.	
			(a)	Histology		(b)	Morphology	
			(c)	Mellittopalynology				1/2
		(vi)	Sye	onus is the	type of fruit.			
			(a)	Simple		(b)	Aggregate	
			(c)	Composite				1/2
		(vii)	Α_	is horticultu	ıral crop.			
			(a)	Nerium		(b)	Tulsi	
			(c)	Orange				1/2
		(viii)	The	gap between two f	lowering periods is	know	7n as	
			(a)	Flowering season		(b)	Flowering gap	
			(c)	Flowering sequence	e			1/2
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	(c)	Answer in one sentence:			
		(ix) What is nectar?	1		
		(x) Define annuals.	1		
		(xi) Any two bee plants.	1		
		(xii) Define pollen basket.	1		
2.	Exp	Explain the following:			
	(a)	(a) Cross pollination			
	(b)	Types of fruits	4		
	(c)	Methods of identification of flowering plants.	4		
		OR			
	(d)	Outline of plant kingdom	4		
	(e)	Morphology of nectar glands	4		
	(f)	Fertilization in flowering plants.	4		
3.	Des	scribe the agricultural bee flora of the local area.	12		
		OR			
	Giv	e illustrated account of the roadside bee plants with reference to the tree flora.	12		
4.	Giv	e brief account of any six important perennial bee plants of India	12		
		OR			
	Exp	lain the specific method of preparation of floral calendar. Add a note on advantage	ges of bee		
	flor	a calendar.	12		
5.	Des	Describe the following:			
	(a)	Types of pollen	4		
	(b)	Advantages of cross pollination	4		
	(c)	Pollen bag on hind leg (only diagram).	4		
		OR			
	(d)	Types of pollination	4		
	(e)	Shapes of pollen grains	4		
	(f)	Methods of preparation of pollen slide.	4		
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6.	Exp	Explain the following:				
	(a)	Role of pollinating agents	4			
	(b)	Method of self pollination in bee plants	4			
	(c)	Advantages of cross pollination.	4			
		OR				
	(d)	Objectives of bee pollination	4			
	(e)	Effect of topographical factors on cross pollination	4			
	(f)	Disadvantages of self pollination.	4			
7.	Des	scribe the following:				
	(a)	Objectives of migration of bee colonies	4			
	(b)	Farmer bee keeper relationship	4			
	(c)	Preventive measures for the insecticidal effects on honey bees.	4			
		OR				
	(d)	Advantages of honey bee colony migration	4			
	(e)	Chemical composition of honey	4			
	(f)	Effects of insecticides on honey bees.	4			

mark officers.

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