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

## (Fundamentals of Bee Keeping)

Time: Three Hours]								[Maximum Marks: 80			
	Not	e :-	-(1)	All questions are	compulsory.						
			(2)	Question Nos. 2	to 7 carry eq	ual marks.					
1.	(A) Fill in the blanks:										
		(a)	Que	een gate is part of	·				1/2		
		(b) The plant provides pollen and nectar called							1/2		
		(c)		is the main pr		1/2					
		(d)	The	e largest bee in a co			1/2				
	(B)	Choose correct option:									
		(e)	Wh	ich is male bee in o	colony?						
			(i)	Worker	(ii)	Drone	(iii)	Queen	1/2		
		(f)	Cle	aning in the colony	is done by b	ees:					
			(i)	Drone	(ii)	Worker	(iii)	Queen	1/2		
		(g)	Tho	e source of pollen to	o bee colony	:					
			(i)	Flower	(ii)	Leaf	(iii)	Trunk	1/2		
		(h)		cultivated bee cro	•						
			(i)	Wheat	(ii)	Sunflower	(iii)	Soybean	1/2		
	(C)	Answer in <b>one</b> sentence each :									
		(i)		fine dividing of color	ny.				1		
		(j)		at is comb?					1		
		(k)		at is nectar?	0				1		
2	(.)	(J)		o lays eggs in color	•				4		
2.	(a)	Give account of requirement for honey bee keeping.									
	(b)										
	(c)	Give identifying characters of A. florea.									
	(d)	OR Which are the different products from hee colonies and its uses ?									
	(e)	•									
	(0)	bee plants.									
	(f)										
3.	(a)	Explain concept of migration route.									
	(b)	Bee keeping is possible on the basis of cultivated crop plant in melgat. Explain.									
	(c)	Explain measures to increase the yield per hive.									
					OF	₹					

	(d)	Explain various advantages of colony migration.	4
	(e)	Prepare the list of cultivated bee crop of your area.	4
	(f)	Give account of tribes and their income source of melghat.	4
4.	(a)	Describe longstroth hive.	4
	(b)	Explain use of swarm net and bee veil.	4
	(c)	Describe advantages of comb foundation sheet.	4
		OR	
	(d)	Explain bee frames and queen gate with its role in hive.	4
	(e)	What is the difference between normal hive of $\Lambda$ , cerena and $\Lambda$ , mellifera?	4
	(f)	Explain use of smoker and hand gloves.	4
5.	(a)	Explain detail method of uniting two bee colonies.	6
	(b)	Give the different function/role of worker bees in colony.	6
		OR	
	(c)	Give account of queen cell formation and describe queen mating.	6
	(d)	Explain method of division of a strong colony.	6
6.	(a)	Explain required climatic conditions for Apiary.	4
	(b)	Explain foraging range of bees; how it can be maintained?	4
	(c)	Explain topographical requirement for Apiary.	4
		OR	
	(d)	Describe criteria for optimum number of hives at the site.	4
	(e)	Define foraging and explain minimum foraging requirement to bees.	4
	(f)	What is Apiary? Explain its significance.	4
7.	Dis	cuss way to note colony record and explain its need.	12
		OR	
	Exp	lain strength, pollen income, honey yield in same colony.	12