7.	(s)	How will you decide strength of colony?	4	AP-413				
	(t)	How will you calculate pollen income?	4					
	(u)	Explain brood comb structure.	4	B.Sc. (Part–I) Semester–I Examination APICULTURE (Fundamentals of Bee Keeping)				
		OR						
	(v)	How the bees will carry pollen and nectar?						
	(w)	Give characteristics of strong colony.	4					
	(x)	Explain honey flow season.	4	Time—Three Hours] [Maximum Marks—80				
				Note: ALL questions are compulsory and question Nos.2-7 carries equal marks.				
				1. (A) Fill in the blanks:				
				(a) Bees collects and from flowers.				
				(b) Wax extractor is used for extraction of				
				(c) Brood chamber is the important component of				
				(d) is formed in queen cell.				
				(B) Choose the correct option:				
				(a) Apis floria bees are:				
	ŀ			(cavity nesting, open nesting, nesting). $\frac{1}{2}$				
				(b) Smallest bee in bee colony is:				
				(queen, worker, drone) ½				

	(c) Honey bees constructs the comb of -			(d)	Explain advantages of comb foundation sheet.	4	
	(wax, propolis, resin).	1/2		(e)	What is the role of frames in bee hives?	4	
	(d) Queen gate is required only to hive of-	1/2		(f)	Explain basic difference between ISI and longstroth his	ive	
	(A. cerena, A. dorsata, A. melifera).					4	
	(C) Answer in one sentence each.		5.	(g)	Explain any four identifying characteristics of queen be	oee	
	(a) Define bee flora.	1				4	
	(b) What is royal jelly?	1		(h)	Describe brood comb.	4	
	(c) Define pollen income.	1		(i)	Explain uniting of colonies.	4	
	(d) What is propolis?	1			OR		
2.	Explain in detail about fundamental requirement keeping.	t for bee 12		(j)	When queen cell can be prepared by the workers	? 4	
	OR			(k)	For what purpose the workers takes flight?	4	
	Discuss Apis dorsata and Apis cerena bees and their colonies.			(1)	Explain egg laying behaviour of queen bee.	4	
		12	6.	(m)	Explain climatic conditions required for apiary site.	4	
3.	Discuss which points to be considered during mig bee colonies.	ration of 12		(n)	Describe foraging range of A.cerena and A.melifer	a.4	
	OR			(0)	How bee store the food stock in the hive explain?	4	
	What do you understand by cultivated bee crops?	Explain		OR			
	various cultivated bee crops with reference to Mah	arashtra. 12		(p)	How optimum numbers of hives to be decided restricted availability of bee flora?	ir	
4.	(a) Explain significance of longstroth hive.	4			•	4	
	(b) Describe super or honey chamber.	4		(q)	Explain criteria for selection of site for apiary.	4	
	(c) Explain use of pollen trap and queen gate.	4		(r)	What type of topography will be suitable for apian	у ? ^	
	OR					4	