B.Sc. Part-III (Semester-V) Examination APICULTURE

			(Cytogenet	ics a	ind Bee Breeding)			
Tim	e : T	hree	Hours]				[Maximum Marks	: 80
	Note	:	All questions are compulse	ory a	nd Question Nos. 2 t	0 7	carry equal marks	;.
1.	(A)	FiII	in the blanks:					
		(i)	is present on ro	ugh l	E.R.			1/2
		(ii)	Plasma membrane is made up of Protein, lipid and					
		(iii)) In, chromosomes are separated towards opposite pole.					
		(iv)	Mitochondria is responsible	e for	production of			1/2
	(B)	Cho	ose correct option:					
		(i)	Genes are located on:					1/2
			(a) Golgi complex	(b)	DNA	(c)	Ribosomes	
		(ii)	Mating flight of bees is al	so ca	alled as			$\frac{1}{2}$
			(a) Mating flight	(b)	Swing flight	(c)	Nuptial flight	
		(iii)	Chromosomes appear like	a thir	n thread like structure	duri	ng the state of:	1/2
			(a) Anaphase	(b)	Metaphase	(c)	Prophase	
		(iv)	Royal jelly is rich in:					1/2
			(a) Protein	(b)	Lipid	(c)	Starch	
	(C)	Ans	wer is one sentence each:					
		(i)	What is role of drone ?					1
	((ii)	What is swarming?					1
	((iii)) What is the use of Extracting equipment ?					1
	((iv)	What is the use of Broodn	est ?				1
2.	Desc	ribe	the different stages of mito	sis a	ind its importance.			12
					OR			
	Desci	ribe	the different progeny testin	g me	thods for bees.			12
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3.	(a)	Describe any one method of bee breeding.	4		
	(b)	Describe the modern hives.	4		
	(c)	Describe the different types of breeding apiaries.	4		
		OR			
	(d)	Describe the natural nests and acquisition of colonies.	4		
	(c)	Describe apiary management problems.	4		
	(1)	Explain types of breeding apiaries.	4		
4.	(g)	Describe the qualitative characters.	4		
	(h)	Describe frequency of egg laying and hatching.	4		
	(i)	Explain the Hive Sanitation.	4		
		OR			
	(j)	Explain the honey yield and body size.	4		
	(k)	Describe the quantitative characters.	4		
	(1)	Describe the undesirable characters.	4		
5.	Des	cribe in detail about pedigree record system.	12		
		OR			
	Des	cribe the methods of evaluation of individual colony records.	12		
6.	(m)	(m) Explain rearing of pedigree queen bees.			
	(n)	Explain superior mating and its advantages.	4		
	(0)	Describe available resources for queen rearing program.	4		
		OR			
	(p)	Describe methods to minimize inferior mating.	4		
	(q)	Explain migration for queen rearing programme.	4		
	(r)	Explain the advance provisioning for queen rearing programme.	4		
7.	(s)	Explain method of preparation of mating nuclei with sealed queen cells.	4		
	(t)	Explain the multiple mating.	4		
	(u)	Explain the organization of mating yards.	4		
		OR			
	(v)	Explain progeny testing methods.	4		
	(w)	Explain the re-migration of stocks.	4		
	(x)	Method for equalization of colony strength.	4		
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