WPZ--8301

(Contd.)

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

(Cytogenetics and Bee Breeding)

Tin	Time: Three Hours]									[Maximum Marks: 80		
	N	ote :	<u> — Л</u>	II questions are co	ompulsory	and Qu	estion No	s. 2 to 7 ca	ırry equal mar	ks.		
1.	(A)	Fill										
		(a) Type of bee select for bee keeping.								1/2		
		(b)	(b) Mitosis is known as division.									
		(c)		1/2								
		(d)		1/2								
	(B)	B) Choose correct option :										
		(e) Location of availability of food – a message convey by:										
			(i)	Sound	(ii) Chem	nical	(iii)	Dancing	1/2		
		(f)	Art	tificial hive is made	e up of:							
			(i)	Iron	(ii) Wood	d	(iii)	Plastics	1/2		
		(g)	Stu	idy of cell is called	l as:							
			(i)	Genetics	(ii) Cytol	ogy	(iii)	Biology	1/2		
		(h)	Аp	iculture is the culti	re of:							
			(i)	Queen	(ii) Work	ers	(iii)	Bees	1/2		
	(C)	C) Answer in one sentence each:										
		(i) What is instrumental insemination?										
		(ii) What is Pedigree?								1		
		(iii) What is the function of workers?										
				nat is Meiosis?						1		
2.	(a)			e Golgi apparatus.						4		
	(b)	•										
	(c)											
	<i>(</i> 1)		.,	N. 1		OR				4		
	(d)											
	(e)											
1	(f)											
3.	(g)											
	(h)											
	(i)	Des	CITO	e (viciosis.		OR				4		
						OK						

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	(j)	Draw the well labeled diagram of Mitosis.	4			
	(k)	Explain the special apiary management problems.	4			
	(l)	Describe applicability of individual methods for bees.	4			
4.	Discuss the selection criteria and their different parameters – Honey yield and Tongue					
			12			
		OR				
		cuss the following components like Honey yield, Body size, Tongue reach and Free laying and hatching are effective for higher yield.	uency of			
5.	Disc	cuss Pedigree records system adapted for maternal living age of bees.	12			
		OR				
	Disc	cuss the methods of evaluation for individual colony records.	12			
6.	(m)	Describe rearing of Pedigree queen bees.	4			
	(n)	Explain the concept of minimizing inferior mating.	4			
	(o)	Describe maternal pedigree for bee selection.	4			
		OR				
	(p)	Explain the requirement migration for queen rearing.	4			
	(q)	Describe the benefits of superior mating.	4			
	(r)	Explain advance provisioning in Maternal Pedigree.	4			
7.	(s)	Explain sealed virgin queens.	4			
	(t)	Describe Re-migration of stocks.	4			
	(u)	Explain single mating.	4			
		OR				
	(v)	Explain the special management problems for organizing mating yards.	4			
	(w)	Explain multiple mating.	4			
	(x)	Describe the method of progeny testing.	4			