AS-1470

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

(Cytogenetics and Bee Breeding)

				(Cytogenetics and Bee Breeding)	
Time	: Ti	[Maximum Marks : 80			
]	Not	e. :	-ALI	questions are compulsory and question nos. 2 to 7 carry	equal marks.
1. ((A)	Fill	in the	e blanks :	
		(a)	Stud	dy of purity of gene is called	1/2
		(b)	Mei	osis is also known as	1/2
		(c)		is control the cell activities.	1/2
		(d)		and Queen involve in mating.	1/2
((B)	Cho	ose c	orrect option :	
		(e)	Bee	s communicate by	
			(i)	Dance	
			(ii)	Sound	
			(iii)	Chemical	1/2
		(f)	Maj	ority of artifical hive is made up of	
			(i)	Steel	
			(ii)	Wax	
			(iii)	Wooden	1/2
VTM13426				1	(Contd.)

www.sgbauonline.com

		(g)	Stud	dy of gene is called as			
			(i)	Cytology			
			(ii)	Embryology			
			(iii)	Genetics	1/2		
		(h)	` '	l protecting the boundary of cytoplasm is called			
			(i)	Mitochondria			
			(ii)	Plasma membrane			
			(iii)	Nucleus	1/2		
	(C)	Ans	wer	in ONE sentence each:			
		(i)	Wh	at is the role of Queen?	1		
		(ii)	Wh	at is Superior genotype?	1		
		(iii)	Wha	at is Mating ?	1		
		(iv)	Wha	at is Swarming?	1		
2.	(a)	Des	cribe	cell membrane.	4		
	(b)	Exp	lain t	the mass selection of superior genotypes.	4		
	(c)	Des	cribe	the function of Lysosome.	4		
				OR			
	(d)) Describe the structure of endoplasmic reticulum.					
	(e)	e) Explain inbreeding and heterosis.					
	(f)	Des	cribe	scope of instrumental insemination for bees.	4		
3.	(a)	Des	cribe	the methods of bee breeding and selection.	4		
	(b)	Dra	wav	vell-labeled diagram of Mitosis.	4		
	(c)	Exp	lain t	the different types of location related to their functions.	4		
				OR			
VTN	1 —134	26		2	(Contd.)		

2

VTM-13426

www.sgbauonline.com

	(d)	Describe Meiosis.	4
	(e)	Explain the concept to transfer natural colonies into hive.	2
	(f)	Describe the management problem in bee breeding.	4
4.	Dis	cuss the differential components subscribing for higher yield.	12
		OR	
	Dise	cuss the Parsimonious habit, absconding and disease resistance with reference to better performance	ance
5.	Dis	cuss the concept of individual colony records and explain any two inspection heads.	12
		OR	
	Dis	cuss the evaluation of individual colony records and describe grouping of individual colo	nies 12
6.	(a)	Describe superior mating and give its advantages.	4
	(b)	Describe migration for Queen Rearing Programme.	4
	(c)	Give the disadvantages of inferior mating.	4
		OR	
	(d)	Explain available resources in maternal Pedigree for bee selection.	4
	(e)	Give the importance of rearing of Pedigree Queen.	4
	(f)	Describe queen rearing with respect to migration.	4
7.	(a)	Explain Provision of Pedigree drones.	4
	(b)	Describe Progeny testing.	4
	(c)	Explain Multiple mating.	4
		OR	
	(d)	Explain mating signs.	4
	(e)	Describe single mating.	4
	(f)	Explain mating yards and their problems.	4
VTM	134	26 3	125

www.sgbauonline.com