AU-102

#### B.Sc. Part-II Semester-III Examination

#### APICULTURE

### (Entomology and Bee Pathology)

			(Ent	omotogy a	nd Bee Pathol	ogy)					
Time:	Three	Hou	rs]			[Maximum Marks : 80					
	No	ite:-	—All questions are	compulsor	y and question	2 to 7 car	ry equal marks.				
1. (A)	) Fill	) Fill in the blanks:—									
	(a)	) Wax glands are located on						1/2			
	(b)	The castes in honey bee is queen, drone and									
	(c)	Egg	g laying is the func	tion of	bee.			1/2			
	(d)	Во	dy of honey bee is	divided int	o head, thorax	and		½			
(B	) Cho	Choose correct option:									
	(a)	Sti	ng appratus is loca	ted on :				1/2			
		(1)	abdomen	(ii)	head	(iii)	thorax				
	(b)	The	e bees with single	comb nestin	g are —			1/2			
		(1)	A. dorsata	(ii)	A. cerana	(iii)	A. melifera				
	(c)	Par	per wasp is insect-	_				1/2			
		(i)	beneficial	(ii)	harmful	(iii)	none of these				
	(d)	(d) The optimum temperature in the hive is —									
		(i)	40 °C	(ii)	34 °C	(iii)	15 °C	1/2			
(C	) Ans	swer	in ONE sentence	each :							
	(a) Give names of any two beneficial insects.							1			
	(b)	) Where is the wax gland located on body of bees ?									
	(c)	Wh	nat is apis?					1			
	(d) Give names of any two predators of bees.							1			
VOX3:	5301				1			(Contd.)			

# www.sgbauonline.com

2.	Disc	cuss various harmful and benificial insects to human beings.	12			
		OR				
	Giv	e classification of hymenoptera and with suitable example explain solitary and soci	al bees.			
			12			
3.	(a)	Explain nesting behaviour of A. dorsata and A. florea.	1			
	(b)	Give any four identifying characters of A cerena.	4			
	(c)	Draw well labelled diagram of honey bee.	+			
		OR				
	(d)	Describe nesting behaviour of A. cerena and trigona.	4			
	(e)	Give duties of worker in colony.	4			
	(f)	Explain sting appratus with diagram.	4			
4.	(g)	Explain digestive system of honey bee.	4			
	(h)	Explain eyes of honey bees.	4			
	(i)	Explain respiratory system in honey bee.	4			
		OR				
	(j)	Explain nervous system in honey bee.	4			
	(k)	Describe antennae of honey bee,	-\$			
	(I)	Explain circulatory system in honey bee.	+			
5.	Disc	Discuss temperature, humidity and ventilation with reference to bee hive - how the bees control				
	thes	e climatic conditions ?	12			
		OR				
	Disc	cuss communication in honey bee colony.	12			
6.	(m)	Explain causes and symptoms of American Fowl Brood disease.	4			
	(n)	What is Chalk Brood disease? Explain its causes.				
	(0)	Give symptoms of thaisac brood.	4			
		OR				

2

(Contd.)

VOX- 35301

## www.sgbauonline.com

	(p)	Explain effects of poisonous pollen and nectar on bees.	4					
	(q)	What is Nosema? Give any two effects.	4					
	(r)	Give general classification of bee diseases.	4					
7.	(s)	Explain any two insect predators of honey bee.	4					
	(t)	Describe method to protect bees from birds.	4					
	(u)	Describe method to control mites in the bees.	4					
OR								
	(v)	Explain methods to control lizard and frogs in apiary.	4					
	(w)	Give the method of control of wasps in apiary.	4					
	( <b>y</b> )	What is bee breeding? Give its advantages	4					

www.sgbauonline.com