B.Sc. (Part—I) Semester—I Examination APICULTURE

(Fundamentals of Beekeeping)

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Time: Thr	ee Ho	ours]			[Maximum Ma	ırks : 80
N.B. : (1	l) Al	LL questions are compul	sory.			
(2	2) Qu	uestion Nos. 2 to 7 carry	equa	ıl marks.		
1. (A) Fi	ill in	the blanks :				
(a	a) Co	omb foundation sheet is	made	up of		1/2
(b	o)	is Italian honey be	e spe	cies.		1/2
(c	;) Ho	ouse of honey bee colony	y prov	vided for beekeeping is	bee	1/2
(d	i)	is main function of	of qu	een bee.		1/2
(B) C	hoose	correct option :-				
(e	e) A.	florea is called:				1/2
	(i)	Dammer bee	(ii)	Dwarf bee	(iii) Rock bee	
(f)) Nu	imber of frames present	in hiv	ve of A. melifera:		1/2
	(i)	7	(ii)	10	(iii) 12	
(g	g) Wl	hich of the following is	not b	ee product ?		1/2
	(i)	Honey	(ii)	Wax	(iii) Jelly	
(h	n) Th	e species used in honey	bee k	ceeping:		1/2
	(i)	A. florea	(ii)	A. cerena	(iii) A. dorsata	
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	(C)	Answer in ONE sentence each :	
		(i) Which are honey bee products?	. 1
-		(j) What is the food of honey bee ?	1
		(k) How many queens are present in a single functional colony?	1
		(l) Which are casts in bee colony?	1
2.	(a)	With the help of suitable example explain bee plants.	4
	(b)	Give identifying characters of A. cerena.	4
	(c)	Define beekeeping and give its advantages.	4
		OR	
	(d)	Explain identifying characters of A. dorsata.	4
	(e)	Describe use of hive tool and smokes.	4
	(f)	Give basic requirement for honey bee keeping.	
3.	(a)	What is migration of bee colonies? Explain its need.	4
	(b)	Describe cultivated crops that are useful for beekeeping.	4
	(c)	Explain various benefits from hived bee colony.	4
		OR	
	(d)	Explain various cultivated crops sown in Melghat region that are useful	for beekeeping.
			4
	(e)	Explain how beekeeping is beneficial for tribal people.	4
	(f)	What is migration route? Describe benefits of migration.	4
	(a)	With the help of diagram explain wax extraction process.	6
	(b)	Describe various components of bee hive in brief.	6
		OR	
	(c)	With the help of diagram explain honey extractor.	6
	(d)	What is feeding? Explain smoker and advantages of bee veil.	6
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5.	(a)	Explain characteristics of queen bee.	4
	(b)	Describe queen cell.	4
	(c)	Explain laying workers.	4
		OR	
	(d)	Explain the concept of foraging and mention routine activity in bee colony.	4
	(e)	What is uniting? Give its advantages.	4
	(f)	What is drone? Explain its role in colony.	4
6.	Disc	cuss criteria, site selection for Apiary.	12
		OR	
	Disc	cuss required climatic conditions, flora and its range for Apiary.	12
7.	(a)	Give advantages of maintaining colony record.	4
	(b)	Explain strength of colony.	4
	(c)	Give mechanism of food storage in bee colony.	4
		OR	
	(d)	What is pollen? How pollen income is calculated?	4
	(e)	How you can maximize honey yield ?	4
	(f)	Explain mechanism of maintaining colony record.	4

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