

YBC-15250

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(Contd.)

B.Sc. (Part-I) Semester-II Examination

APICULTURE

(Bee Botany, Pollination and Melato Palynology)

Tim	e : T	hree	Hours]	[Maximum Marks: 80
Note :—(1)		(1)	All questions are compulsory.	
		(2)	Question Nos. 2 to 7 carry equal marks.	
1.	(A)	Fill	in the blanks :	
		(a)	Bee plant yields and for bees.	1/2
		(b)	Study of Pollen grains is called	1/2
		(c)	Entomophily is pollination by	1/2
		(d)	Honey bee carries pollen grains in	1/2
	(B)	Cho	ose correct option :—	
		(e)	In pollination pollen grains transfer from stamens to	
			(i) ovary (ii) anther	
			(iii) stigma (iv) stipul	
		(f)	Anemophily is a pollination by —	1/2
			(i) wind (ii) insect	
			(iii) bats (iv) water	
		(g)	The horticultural crops is	1/2
			(i) orange (ii) tulsi	
			(iii) neem (iv) nerium	
		(h)	Conversion of nectar to honey by bees is called:	1/2
			(i) regurgitation (ii) foraging	
			(iii) swarming (iv) derth	
	(C)	Ans	wer in ONE sentence each :—	
		(i)	Define cross pollination.	1
		(j)	What is autogamy?	1
		(k)	What is palynology?	1
		(1)	Define bee plant.	1
2.	(a)	Giv	e the classification of bee plants with suitable examples	. 4
	(b)	Exp	plain process of fertilization in flowering plants.	4
	(c)	Exp	plain secretion of nectar.	4
			OR	
	(d)	Exp	plain male and female parts of flower.	4
	(e)	Giv	re composition of nectar.	4
	(f)	Exp	plain development of fruit.	4

	Disc	cuss wild and horticultural bee plants with their flowering plants.	12
1.	(g)	Explain floral gap.	4
	(h)	Explain concept of floral sequence and its advantages.	4
	(i)	Describe floral calendar, give its advantages.	4
		OR	
	(j)	How honey becomes toxic?	4
	(k)	Explain major bee crops in India with their flowering period and region.	4
	(l)	Describe season of major honey flow in India.	4
5.	(m)	Draw a diagram of pollen bag on hind leg.	4
	(n)	Explain honey bees are more efficient for pollination.	4
	(o)	Explain method for preparation of pollen slide.	4
		OR	
	(p)	Explain types of pollen.	4
	(q)	Describe the method to identify floral source.	4
	(r)	Give characteristics of pollen grains.	4
6.	Dis	cuss pollination with their types and its advantages and disadvantages.	12
		OR	
	Dis	cuss various pollinating agents.	12
7.	(s)	Explain the concept of migratory bee keeping.	4
	(t)	Describe masures to protect bees from insecticide spraying.	4
	(u)	Explain the concept of service for pollination through beekeeping.	4
		OR	
	(v)	Explain how bees convert nectar to honey.	4
	(w)	Explain advantages of honey bees to farmer and bee keeper.	4
	(x)	Explain advantages of migration of bee colonies.	4