

YBC-15250

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

(Bee Botany, Pollination and Melato Palynology)

Time: Three	Hours]	[Maximum Marks: 80
Note :(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	oose correct option :-	
(e)	In pollination pollen grains transfer from stamens to	. 1/2
	(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	swer 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 example	es. 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	ve composition of nectar.	4
(f) Exp	plain development of fruit.	4
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FirstrankerIsrchoiteliscuss any six annual bee crops with their flowering period. 12

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OR

	Discuss wild and horticultural bee plants with their flowering plants.	12
4.	(g) Explain floral gap.	4
	(h) Explain concept of floral sequence and its advantages.	4
	 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
	(I) 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.	Discuss pollination with their types and its advantages and disadvantages.	12
	OR	
	Discuss 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