



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme – B.Sc.(Ag)-Hons-2021 Course Name – Management of Beneficial Insects Course Code - CC-BAG675 (T) (Semester VI)

Full Marks: 50		Time: 2:0 Hours
[The figure in the margin indic	ates full marks. Candidates are required to g	ive their answers in their
	own words as far as practicable.]	
	Group-A	1 20-20
Choose the correct alternati	(Multiple Choice Type Question)	1 x 20=20
1. Choose the correct alternati	ve from the following .	
(i) Show the correct answer:	The stingless bees belong to the family	
a) Bombycidae	b) Meliponidae	
c) Apidae	d) Aphididae	
(ii) Show the correct answer: 1	The origin of European bee (Apis mellifera) i	S S The regulation to
a) Italy	b) Spain	
c) Germany	d) France	
	Moveable frame hive was first introduced by	y L. L. Langstroth
in		
a) 1751	b) 1800	
c) 1851	d) 1881	
(iv) Show the correct answer: S	ting in worker honey bee is a modification	of The Control of the
a) Ovipositor	b) Anal cerci	
c) Respiratory siphon	d) Cornicles	
	Vhich one among the following is an acarin	e pest of
honeybees?		
a) Varroa Mite	b) Spider Mite	
c) Eriophyid mite	d) Phytoseiid mite	
(vi) Show the correct answer: The	he largest producer of silk in the world is	
a) India	b) China	
c) USA	d) Brazil	
(vii) Show the correct answer: The	ne high yielding variety of mulberry suited	for West Bengal
is	\$100 Per 100	a fill dita in a
a) Kanva-2	b) S-54	
c) S-30	d) S-162	
	ptimum soil pH required for mulberry cult	ivation is
	cult	ivation is

b) 6.0 to 6.8

a) 4.5 to 5.8

(ix) Show the correct answer: Preservation of mulb	arry leaves is required for	
	b) Rearing more numbers of silkworms	
a) Providing food during off-seasonc) Producing good quality cocoons	d) All of these	
(x) Show the correct answer: Eri silkworm is reared	•	
a) Mulberry	b) Som	
c) Terminalia	d) Castor	
(xi) Show the correct answer: The two fibroin filam	•	
cementing layer called		
a) Pectin	b) Sericin	
c) Glycerine	d) Gum	
(xii) Show the correct answer: To produce 1 kg of ra	w silk, the quantity of cocoons required	
is · · · · · · · · · · · · · · · · · · ·		
a) 7 to 8 kg	b) 8 to 9 kg	
c) 9 to 10 kg	d) 10 to 11 kg	
(xiii) Mother moth examination is related to manage	ement of which disease of silkworms?	
a) Grasserie	b) Flacherie	
c) Pebrine	d) Muscardine	
(xiv) Show the correct answer: The worker bee is		
a) Sterile female	b) Fertile female	
c) Sterile male	d) Fertile male	
(xv) Identify the weed that is controlled by Zygogran	mma bicolorata.	
a) Prickly pear	b) Water hyacinth	
c) Congress grass	d) Water fern	
(xvi) Identify the parasitoid of wooly apple aphid, Er	iosoma lanigerum.	
a) Aphelinus mali	b) Cryptolaemus montrouzieri	
c) Spogossia bezziana	d) None of these	
(xvii) Identify the parasitoid which is released for the	control of sugarcane leaf hopper,	
Pyrilla perpusilla.		
a) Trichogramma spp.	b) Epiricania melanoleuca	
c) Scymnus nubilus	d) Aphelinus mali.	
(xviii) Identify the natural enemy of Prickly pear weed	d.	
a) Dactylopius opuntiae	b) Teleonemia scrupulosa	
c) Asphondylla lantana	d) None of these	
(xix) Identify the most common host of Trichogramn	na japonicum.	
a) Rice yellow stem borer	b) Sugarcane leafhopper	
c) Rhinoceros beetle	d) Rice brown planthopper	
(xx) Identify the weed killer of Eichhornia crassipes.		
a) Cryptobagus singularis	b) Neochetina bruchi	
c) Procecidochares utilis	d) Apion brumneonigrum	
Group	р-В	
선생님의 점점 보다는 경기를 가져왔다면 하는데 모든데	- 13 2 · Ai	2.5 x
(Short Answer Typ	pe Questions)	10=25
		10-23
2. Explain the duties of Queen bee.		
3. Explain in short about swarming.		(2.5)
 Explain in short about swarming. Briefly discuss about the seasonal management in commercial beekeeping. 		(2.5)
 Explain in brief about seed lac. 	i commercial beekeeping.	(2.5)
	Satal to and t	(2.5)
Bolo do Belle,	iciai insects.	(2.5)
	L. turns	(2.5)
8. Explain the soil amd climatic requirement for mul	perry cultivation.	(2.5)

8.

 Explain the methods of harvesting of mulberry leaves. Outline the methods implemented for conservation of pollinators. Summarize about the considerations for preservation of mulberry leaves. OR		
Explain about the slow growth syndrome in silkworms.		
Group-C (Long Answer Type Questions)	5 x 1=5	
12. Give an elaborate explanation about the biology of Mulberry Silkworm. OR	(5)	
Discuss elaborately about the duties of an adult Worker Honeybee with respect to its age.	(5)	
