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Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125



BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – B.Sc.(Ag)-Hons-2021/B.Sc.(Ag)-Hons-2023

Course Name – Management of Beneficial Insects

Course Code - CC-BAG675 (T)/CC-BAG675(T)

(Semester VI)

Full Marks : 50

Time : 2:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

1. Choose the correct alternative from the following :

- (i) Show the correct answer: Which bee species among the following makes series of parallel combs?

a) <i>Apis dorsata</i>	b) <i>Apis laboriosa</i>
c) <i>Apis florea</i>	d) <i>Apis mellifera</i>
- (ii) Show the correct answer: In honeybees, fertilized eggs produce

a) Females	b) Males
c) Both males and females	d) None of these
- (iii) Show the correct answer: Type of antennae present in honeybees is

a) Bipectinate	b) Clavate
c) Lamellate	d) Geniculate
- (iv) The symptom dysentery is related to which disease of honeybees?

a) Nosema disease	b) American foul brood disease
c) European foul brood disease	d) Acarine disease
- (v) Show the correct answer: Which one among the following is an acarine pest of honeybees?

a) Varroa Mite	b) Spider Mite
c) Eriophyid mite	d) Phytoseiid mite
- (vi) Show the correct answer: The high yielding variety of mulberry suited for West Bengal is

a) Kanva-2	b) S-54
c) S-30	d) S-162
- (vii) Show the correct answer: Bombyx mori is reared on

a) Mulberry	b) Som
c) Terminalia	d) Castor
- (viii) Show the correct answer: The two fibroin filaments of silk are held together by a cementing layer called

- a) Pectin
c) Glycerine
- b) Sericin
d) Gum
- (ix) Show the correct answer: The amino acid which is not abundant in silk fibroin is
- a) Alanine
c) Serine
- b) Glycine
d) Thiamine
- (x) Mother moth examination is related to management of which disease of silkworms?
- a) Grasserie
c) Pebrine
- b) Flacherie
d) Muscardine
- (xi) Show the correct answer: The weight of one Indian silk bale is
- a) 50 kg
c) 70 kg
- b) 60 kg
d) 80 kg
- (xii) Show the correct answer: Type of antennae present in silkworms is
- a) Bipectinate
c) Lamellate
- b) Geniculate
d) Clavate
- (xiii) Show the correct answer: The process of removing the threads from killed cocoons is called as
- a) Mounting
c) Curing
- b) Reeling
d) Stifling
- (xiv) Nuclear Polyhedrosis Virus (NPV) is related to which silkworm disease?
- a) Muscardine
c) Flacherie
- b) Pebrine
d) Grasserie
- (xv) Identify the weed that is controlled by *Zygogramma bicolorata*.
- a) Prickly pear
c) Congress grass
- b) Water hyacinth
d) Water fern
- (xvi) Identify the family of *Trichogramma chilonis*.
- a) Scleniidae
c) Bethyridae
- b) Braconidae
d) Trichogrammatidae
- (xvii) Show the correct answer: Which of the following is a pest of honeybee?
- a) *Vespa cincta*
c) *Galleria melonella*
- b) *Palerus orientalis*
d) All of these
- (xviii) Show the correct answer: Isle of wight disease in honeybees is caused by
- a) Bacteria
c) Virus
- b) Fungus
d) Mites
- (xix) Show the correct answer: The largest consumer of silk in the world is
- a) India
c) Japan
- b) China
d) USA
- (xx) Show the correct answer: Scientific name of lac insect is
- a) *Apis mellifera*
c) *Bombyx mori*
- b) *Kerria lacca*
d) None of these

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Group-B

(Short Answer Type Questions)

2.5 x
10=25

2. Explain the duties of Queen bee. (2.5)
3. Explain about the symbiotic relationship between lac insects and their host plants. (2.5)
4. Explain in brief about seed lac. (2.5)
5. Explain about shellac. (2.5)
6. Discuss about voltinism in silkworms. (2.5)
7. Explain the soil and climatic requirement for mulberry cultivation. (2.5)
8. Summarize about the considerations for preservation of mulberry leaves. (2.5)
9. Identify the qualities of a successful parasitoid in Biological control. (2.5)

10. Explain the methods of harvesting of mulberry leaves.

11. Discuss about how varroa mites cause damage to honeybees.

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(2.5)

(2.5)

OR

Explain the taxonomic details of different species of silkworms.

(2.5)

Group-C

(Long Answer Type Questions)

5 x 1=5

12. Elaborate about the biology of Mulberry Silkworm.

(5)

OR

Discuss elaborately about the duties of an adult Worker Honeybee with respect to its age.

(5)
