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Barasat, Kolkata - 700125

**Term End Examination 2024-2025**

**Programme – B.Sc.(Ag)-Hons-2021/B.Sc.(Ag)-Hons-2022**

**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)

$$1 \times 20 = 20$$

- 1. Choose the correct alternative from the following :**
- (i) Show the correct answer: The main honey producing bee belongs to family
- a) Bombycidae                                      b) Meliponidae  
c) Apidae    d) Aphididae
- (ii) Show the correct answer: Which bee species among the following makes series of parallel combs?
- a) Apis dorsata                                      b) Apis laboriosa  
c) Apis florea                                        d) Apis mellifera
- (iii) Show the correct answer: The origin of European bee (*Apis mellifera*) is
- a) Italy     b) Spain  
c) Germany                                         d) France
- (iv) Show the correct answer: In honeybees, fertilized eggs produce
- a) Females    b) Males  
c) Both males and females                      d) None of these
- (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: Eri silkworm is reared on
- a) Mulberry                                         b) Som  
c) Terminalia                                        d) Castor
- (vii) Show the correct answer: What is the percentage of fibroin and sericin in raw silk, respectively?
- a) 25% and 75%                                      b) 50% and 50%  
c) 75% and 25%                                      d) 60% and 40%
- (viii) Mother moth examination is related to management of which disease of silkworms?
- a) Grasserie                                         b) Flacherie

- c) Pebrine  
(ix) Show the correct answer: The process of removing the threads from killed cocoons is called as  
a) Mounting  
c) Curing  
(x) Nuclear Polyhedrosis Virus (NPV) is related to which silkworm disease?  
a) Muscardine  
c) Flacherie  
(xi) Show the correct answer: The worker bee is  
a) Sterile female  
c) Sterile male  
(xii) Identify the family of general egg parasitoids.  
a) Trichogrammatidae  
c) Evanidae  
(xiii) Identify the host of the egg-larval parasitoid, Chelonus blackburni.  
a) Potato tuber moth  
c) Aphids  
(xiv) Identify the parasitoid which is released for the control of sugarcane leaf hopper, Pyrilla perpusilla.  
a) Trichogramma spp.  
c) Scymnus nubilus  
(xv) Identify the pupal parasitoid.  
a) Trichospilus pupivora  
c) Bracon hebetor  
(xvi) Identify the most common host of Trichogramma japonicum.  
a) Rice yellow stem borer  
c) Rhinoceros beetle  
(xvii) Identify the egg parasitoid of aphids.  
a) Aphidius colemani  
c) Telenomus remus  
(xviii) Show the correct answer: Isle of wight disease in honeybees is caused by  
a) Bacteria  
c) Virus  
(xix) Show the correct answer: Royal jelly is the secretion of  
a) Labial glands  
c) Hypopharyngeal glands  
(xx) Show the correct answer: Scientific name of lac insect is  
a) Apis mellifera  
c) Bombyx mori  
d) Muscardine  
b) Reeling  
d) Stifling  
b) Pebrine  
d) Grasserie  
b) Fertile female  
d) Fertile male  
b) Scleroniidae  
d) All of these  
b) Cut worm  
d) None of these  
b) Epiricania melanoleuca  
d) Aphelinus mali.  
b) Trichogramma japonicum  
d) Epiricania melanoleuca  
b) Sugarcane leafhopper  
d) Rice brown planthopper  
b) Evania appendigaster  
d) Trichogramma embryophagum  
b) Fungus  
d) Mites  
b) Neurosecretory glands  
d) Mandibular glands  
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 in short about bee swarming. (2.5)
4. Explain in brief about seed lac. (2.5)
5. Discuss about bee dancing. (2.5)
6. Explain about the types of scavengers. (2.5)
7. Discuss about the post-harvest care of mulberry leaves for better nutritional value. (2.5)
8. Identify the qualities of a successful parasitoid in Biological control. (2.5)
9. Explain the methods of harvesting of mulberry leaves. (2.5)

10. Explain about pebrine disease of silkworms. (2.5)  
11. Explain about AFB and EFB disease of honeybees. (2.5)

OR

Explain the soil and climatic requirement for mulberry cultivation. (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)

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