

Roll No. ....

Total Pages : 3

**CMDQ/D-23**

**5169**

**APPLIED ZOOLOGY**

Paper–M–Z–303

Time allowed : 3 Hours]

[Maximum Marks : 80

**Note :** Attempt **five** questions in all, selecting **one** question from each unit. Question No. **1** is compulsory. All questions carry equal marks.

**Compulsory Question**

1. Answer the following in brief: 8×2=16
- (i) Economic importance of wheat aphid
  - (ii) Herbal control of insect pest
  - (iii) Cause of Scrub typhus
  - (iv) Processing of Coccon
  - (v) Production of stick lac
  - (vi) Scientific names of two species of fresh water prawn.
  - (vii) Scientific names of pearl producing Mollusks
  - (viii) Four Edible freshwater fishes.

**UNIT-I**

2. (a) Explain the management practices for plant hoppers in paddy. 8
- (b) Enlist the pheromones involved in pest management. Also explain their mode of action. 8

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**P.T.O.**

3. (a) Explain the nature of damage by cotton white fly and sugarcane top borer. 8
- (b) Describe the biology of pink bollworm, *Pectinophora gossypiella*. 8

**UNIT-II**

4. Write a note on causative agent, mode of action and symptoms of following disease: 4×4=16
- (a) Brucellosis (b) Malaria
- (c) Sleeping sickness (d) Rabies.
5. Enlist important helminth and nematode diseases in humans and their causative agents with a brief description about their effects. 16

**UNIT-III**

6. Explain the following:
- (a) Species of honey bees commonly used in Apiculture industry in India. 8
- (b) Bee products and their uses. 8
7. (a) Explain the method of sericulture in India. 8
- (b) Enlist the different strains of lac insect. Write a brief note on cultivation of lac insect plant and uses of lac. 8

**UNIT-IV**

8. Write short notes on the following:
- (a) Snake 8
- (b) CPCSEA guidelines and maintenance of experimental animals. 8

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9. (a) Write a note on rearing of chicken, their diseases and poultry products. 8
- (b) Give an account of pharmaceuticals from Animals. 8