

2019

ZOOLOGY

(Major)

Paper : 6.3

(Economic Zoology)

Full Marks : 60

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. Fill in the blanks :

1×4=4

(a) _____ silk of Assam is a Geographical Indication (GI) tag protected.

(b) _____ is the scientific name of Golden Mahseer.

(c) The partially fermented pollen mixture stored in the honeybee comb is known as _____.

(d) *Spodoptera mauritia* is a pest causes severe damage to _____ crop.

(2)

2. Choose the correct answer : $1 \times 3 = 3$

- (a) Apitoxin is a
(i) honeybee product
(ii) lac insect product
(iii) silkworm product
(iv) fish product
- (b) Protozoan disease of silkworm is known as
(i) muscardine
(ii) pebrine
(iii) grasserie
(iv) flacherie
- (c) The lac insect belongs to the order
(i) Lepidoptera
(ii) Hymenoptera
(iii) Orthoptera
(iv) Homoptera

3. Distinguish between the following (any four) : $2 \times 4 = 8$

- (a) Waggle dance and Round dance of honeybee
- (b) Kusumi lac and Rangeeni lac
- (c) Mechanical and Cultural control of pest
- (d) Captive and Culture fisheries
- (e) Spinning and Reeling of silk
- (f) Sterile diploid female bee and Fertile diploid female bee

(Continued)

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(3)

4. Write short notes on the following (any three) : $5 \times 3 = 15$

- (a) Freshwater prawn culture
- (b) Diseases of silkworm
- (c) Induced breeding of IMC by hypophysation
- (d) Biological control of pests
- (e) Lac culture

5. What is silk? Write an account of varieties of silk product and their economics in India. $2 + 8 = 10$

Or

Describe the process of rearing of muga silkworm with the effect of environmental conditions. $5 + 5 = 10$

6. What is nuptial flight? What are the roles of drone and worker honeybees in their colony? Mention the economic importance of honey. $1 + 6 + 3 = 10$

Or

Define IPM. Give an account on the advantage and disadvantage of the use of pesticides. State the role of natural products in pest control. $2 + 4 + 4 = 10$

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(Turn Over)

7. What do you mean by aquaculture? Describe briefly about the composite fish culture.

2+8=10

Or

Discuss with suitable diagram about the construction and layout of ponds of a fish farm.

10

(4)

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