

2023

ZOOLOGY

Paper : ZOOSE3012

(Sericulture)

Full Marks : 50

Pass Marks : 20

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

- 1. Choose the correct answer from the following (any five) :** **1×5=5**

(a) How many pairs of glands develop a cocoon?

- (i) One**
- (ii) Two**
- (iii) Five**
- (iv) Four**

(b) Which of the following is not a type of silk?

(i) Mulberry silk

(ii) Tasar silk

(iii) Muga silk

(iv) Moth silk

(c) Silkworm undergoes ____ moulting.

(i) two

(ii) three

(iii) four

(iv) five

(d) ____ symptoms are intersegmental membranes of the body which become swollen and the skin becomes shiny.

(i) Flacherie

(ii) Muscardine

(iii) Grasserie

(iv) Pebrine

(e) Voltinism means

(i) number of generations in a year

(ii) one generation in a year

(iii) two generation in two years

(iv) number of moulting in a year

(f) Mulberry silkworms belong to the family of

(i) bombycidae

(ii) lepidoptera

(iii) saturwidae

(iv) monoclamydae

(g) Name the disease of silkworm that can be transmitted from parents to the offspring.

(i) Virus disease

(ii) Fungal disease

(iii) Bacterial disease

(iv) Protozoan disease

(h) Uzi flies are pest of ~~silkworm~~ ~~mulberry~~

(i) mulberry ~~mulberry~~

(ii) non-mulberry ~~mulberry~~

(iii) all varieties of silkworm ~~mulberry~~

(iv) eri ~~mulberry~~

(i) The process of shedding down of exoskeleton in silkworm is called

(i) brushing

(ii) melting

(iii) moulting

(iv) mounting

(i) *Philosomia ricini* is the scientific name of

(i) eri silkworm ~~mulberry~~

(ii) muga silkworm ~~mulberry~~

(iii) oak tasar silkworm

(iv) oak trees

2. Answer any five of the following questions :

2×5=10

(a) Define sericulture.

(b) Explain the composition of the silk.

(c) What is the importance of moulting?

(d) Define late age rearing.

(e) What is the difference between spinning and reeling?

(f) Mention different types of rearing houses.

(g) What are the chemicals used in disinfection of rearing appliances?

3. Answer any five of the following questions :

5×5=25

(a) Write about process of spinning of cocoon.

(b) Describe shelf-rearing method and floor-rearing method in late age rearing.

(c) Write a note on cocoon harvesting.

(d) What is disinfection? Explain disinfection process in sericulture.

- (e) Write about pebrine disease and suggest its control measures.
- (f) Write about the structure and functions of the silk gland.
- (g) Write about different mountages.
- (h) Write a short note on 'Uzi fly and its control measures'.
- (i) Write about Flacherie disease and suggest its control measures.

4. Answer any one of the following questions : 10

- (a) Explain the life cycle of *Bombyx mori*.
- (b) Describe the process of reeling of mulberry cocoons. Write the control measure of Muscardine disease. 5+5=10
- (c) What is the indigeneous race of silkworms? Describe the importance of non-mulberry silkworm culture in India. 2+8=10

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