(6 pages)

Reg. No. : .....

Code No. : 20883 E **Sub. Code : ESMI 22**

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2024.

Second Semester

Microbiology

Skill Enhancement Course – III – SERICULTURE

(For those who joined in July 2023 onwards)

Time : Three hours Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which state is suitable for rearing univoltine silk worm in India?

(a) Karnataka (b) Tamil nadu

(c) West Bengal (d) Jammu and Kashmir

2. ———— plant is important for sericulture.

(a) Legumes (b) Mulbery

(c) Pea (d) Both (a) and (b)

3. What is the life span of adult *Bombyx mori*?

(a) 2 days (b) 6 days

(c) 8 days (d) 3–4 days

4. The life cycle of a silk worm is ————.

(a) Egg – caterpillar – pupa – adult

(b) Egg – tadpole – adult

(c) Egg – larva – adult

(d) Both (a) and (c)

5. The mode of transmission of disease from the infected mother moth is called ————.

(a) Genetic disease (b) Tranovarial

(c) Inherited disease (d) Both (a) and (b)

6. Flacherie is the general term of ———— disease.

(a) Bacterial (b) Viral

(c) Fungal (d) Protozoan

7. Cocoon is formed by how many pairs of glands?

(a) 1 (b) 2

(c) 3 (d) 4

8. Silk worms secrete fibre made of ————.

(a) fat (b) cellulose

(c) nylon (d) protein

9. Which state is famous for sericulture in India?

(a) Karnataka (b) Tamil nadu

(c) Kerala (d) Japan

10. Silk worm rearing house has a optimum temperature of ———— and relative humidity of ———— for the growth of silk worm.

(a) 10 – 20°C and RH 40 – 50%

(b) 15 – 20°C and 50 – 60%

(c) 20 – 25°C and RH 50%

(d) 26 – 28°C and RH 60 – 70%

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Describe the selection of planting materials for mulberry crop cultivation.

Or

(b) Select the economic importance of sericulture.

12. (a) Identify the morphological characteristics of mulberry silk worm.

Or

(b) Interpret the reproductive system in silk moth.

13. (a) Predict the disease of non-mulberry silk worms.

Or

(b) Choose the symptoms and control measures of flacherie.

14. (a) Explain the equipment used in silk worm rearing.

Or

(b) Estimate the role of mounting method of silk worm.

15. (a) Evaluate the entrepreneurship opportunities in sericulture.

Or

(b) Predict the subsidies for sericulture in India.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Enumerate the characteristics features of different varieties of mulberry and its uses.

Or

(b) Examine the scope and history of sericulture industry in India.

17. (a) Illustrate the life cycle of silk worm.

Or

(b) Discuss the biology of Tasar silk worm.

18. (a) Predict the causative agent, symptoms, transmission and control of muscardine disease.

Or

(b) Examine the pests of silk worm and its types with suitable examples.

19. (a) Analyze the processing technologies of mulberry cocoons.

Or

(b) Explain the value added products from mulberry plant parts.

20. (a) Select the major components used for the development of sericulture industry.

Or

(b) Summarize the sanitation procedure in silk worm production unit.

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