

(6 pages)

Reg. No. :

Code No. : 30419 E Sub. Code : ESMI 22/
FSMI 22

B.Sc. (CBCS) DEGREE EXAMINATION,
APRIL 2026.

Second Semester

Microbiology

Skill Enhancement Course – 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. Commercial production of natural silk by rearing silkworm is called _____
- (a) Agriculture (b) Aquaculture
(c) Sericulture (d) Silviculture

2. _____ is the second largest producer of silk in the world.
- (a) China (b) India
(c) Uzbekistan (d) Thailand
3. Silkworm are reared for the production of _____
- (a) Earthworm (b) Hook Worms
(c) Cocoons (d) Round Worms
4. Silkworms require _____ for their various physiological functions and young worms are more susceptible to changes in air.
- (a) Fresh air (b) Contamited air
(c) Polluted air (d) Soil air
5. In each age of the silkworm _____ stages of feeding occurs.
- (a) 2 (b) 4
(c) 7 (d) 8
6. _____ is a plant based steroid with antijuvenile properties in silkworm.
- (a) Indole (b) Mercaptans
(c) Sampoorna (d) Capric Acid

7. What is the primary source for silkworms?
- (a) Mulberry leaves (b) Oak Leaves
(c) Eel grass (d) Banana Fruits
8. What is the Ideal temperature for rearing Silkworms?
- (a) 20–25°C (b) 25–30°C
(c) 30–35°C (d) 35–40°C
9. The central silk board became the member of international silk orientation in the year
- (a) 1948 (b) 1958
(c) 1968 (d) 1978
10. Where is the National institute of Rural development located.
- (a) Gujarat (b) Hyderabad
(c) Chennai (d) Thiruvandapuram

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Write about the importance of sericulture?
Or
(b) Describe the optimum condition for the growth of mulberry plant.
12. (a) Explain the structure of egg in mulberry silk worm.
Or
(b) Focus on the morphology of silk worm.
13. (a) Write notes on parasitism.
Or
(b) Discuss on Symbiosis.
14. (a) Focus on mulberry value added products.
Or
(b) How do you identify a cocoon?

15. (a) Write short notes on silkworm marketing?

Or

(b) How to start a sericulture business.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Discuss about distribution of sericulture industries in India.

Or

(b) Focus on the main methods of mulberry cultivation.

17. (a) Write a detail notes on 'Silk worm moth'

Or

(b) Describe in detail about the external morphology of mulberry silkworm?

18. (a) Discuss about bacterial diseases of silkworm.

Or

(b) Discuss in detail about pests and predators of silkworms.

19. (a) What are the characters used for the assessment of cocoon.?

Or

(b) What are the equipment used for rearing silkworms?

20. (a) Discuss about the role of sericulture in rural development and employment.

Or

(b) Explain in detail about the subsidy for sericulture rearing in Tamil Nadu.