

(6 pages)

Reg. No. :

Code No. : 30728 E Sub. Code : ESMI 22/
FSMI 22

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2025.

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 the questions.

Choose the correct answer :

1. Silk was discovered in _____ nearly 3000 years.
(a) India
(b) Canada
(c) China
(d) Finland

2. India is the _____ largest producer of silk in the world
(a) First (b) Second
(c) Third (d) Fourth
3. Based on the number of moult the larva undergoes, *Bombyx mori* is divided into _____ except.
(a) trimoulters (b) tetramoulters
(c) pentamoulters (d) polymoulters
4. *Antheraea mylitta* is a _____ Tasar silkworm
(a) Indian (b) Japanese
(c) chinese (d) Finland
5. Dwarf disease of mulberry is caused by _____
(a) *Streptomyces* (b) *Mycoplasma*
(c) *ureoplasma* (d) *Salmonella*
6. Leaf blight of mulberry is caused by _____
(a) *cladosporium*
(b) *Xanthomonas campestris*
(c) *Xanthomonas oryzae*
(d) *Erwinia carotovora*

7. Generally _____ types of silkworm rearing are practised except
- (a) House rearing
 (b) Shelf rearing
 (c) Shoot rearing
 (d) floor rearing
8. Harvested mulberry leaves are stored and preserved fresh in _____
- (a) Cleaning nets (b) Leaf chamber
 (c) Mats (d) Mountages
9. In a 'winding frame' winding test is done to estimate the _____ of the silk filament when wound at a specific speed and specific tension
- (a) strength (b) colour
 (c) intensity (d) number
10. Raw silk is dedicated at _____
- (a) 80°C (b) 100°C
 (c) 140°C (d) 70°C

Page 3 Code No. : 30728 E

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 optimum condition for the growth of mulberry plant
- Or
- (b) Write about the importance of sericulture.
12. (a) Write about silkworm classification based on habitat place of origin?
- Or
- (b) Discuss about silkworm egg?
13. (a) Write about Flacheria disease and add notes on its causative agents, symptoms and control measures?
- Or
- (b) Discuss about symptoms of pebrine infected eggs and larvae
14. (a) Explain about cocoon assessment?
- Or
- (b) What is the process of silkworm into silk?

Page 4 Code No. : 30728 E

[P.T.O.]

15. (a) What are the Entrepreneurial opportunities in sericulture sector?

Or

(b) How do you promote sericulture

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 taxonomical characters of mulberry varieties?

Or

(b) Explain in detail about the geographic distribution of sericulture?

17. (a) What are the unique characteristics of silkworm?

Or

(b) Write about silkworm larva?

18. (a) Write a detail notes on silkworm parasitism?

Or

(b) Write a brief notes on pests and predators of silk worms?

Page 5 Code No. : 30728 E

19. (a) Discuss about the latest technologies for processing silkworm?

Or

(b) What are the economic benefits of mulberries?

20. (a) Why is sericulture project important? Explain?

Or

(b) What is entrepreneurship development programme in sericulture and steps of conducting EDP?

Page 6 Code No. : 30728 E