

FOR THE CANDIDATES ADMITTED  
DURING THE ACADEMIC YEAR 2020 ONLY)

20UZY6E3

REG.NO

NGM COLLEGE (AUTONOMOUS) POLLACHI  
END-OF-SEMESTER EXAMINATIONS: MAY-2023

B. Sc. -ZOOLOGY  
VI SEMESTER

MAXIMUM MARKS: 70  
TIME: 3 HOURS

PART III  
SERICULTURE

SECTION – A (10 X1 = 10 MARKS)  
ANSWER THE FOLLOWING QUESTIONS  
MULTIPLE CHOICE QUESTIONS (K1)

- Which city in India is known as the “Silk city of India?”  
a. Varanasi                      b. Bhagalpur                      c. Vishakhapatnam                      d. New Delhi
- Name the major disease that affects moriculture?  
a. Tikka disease                      b. Chlorosis                      c. Powdery mildew                      d. Brown necrotic spots
- What is the major protein silk cotton?  
a. Fibroin                      b. Casein                      c. Sericin                      d. melanin
- Find out the causative agent of Pebrine diseases.  
a. Maconellicoccus hirsutus                      b. Nosema bombycis  
c. *Phyllactinia corylea*                      d. Polyhedrosis Virus
- Which one of the following produces rich golden color silk?  
a. Taser                      b. Eri                      c. Muga                      d. *Bombyx mori*

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES (K2)

- Define ‘Moriculture’.
- State any two symptoms of leaf mosaic diseases. (Any two)
- Differentiate between the holometabolous and hemimetabolous with an example.
- What is the temperature optimum required for Chawki rearing?
- How does the larva of silkworm gets infected with Uzifly?

ETHICAL PAPER

(CONTD....2)

**SECTION – B****(5 X 4 = 20 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Outline the characteristics of silk fiber and their uses.  
(OR)  
b) List out the non mulberry silkworms and their identification features.
12. a) Explain the methods of harvesting and preservation of mulberry leaves?  
(OR)  
b) Write a short note on the Fusarium root rot diseases in moriculture and discuss the control measures.
13. a) Describe the structure of silk gland of *Bombyx mori* with well-labeled diagram.  
(OR)  
b) Explain any four silk worm rearing equipments with a neat sketch.
14. a) Describe the causative agent, symptoms and control measures of Grasserie disease in Silkworm.  
(OR)  
b) Give a brief account on mounting methods and precautions in silkworm rearing.
15. a) List out defective cocoons and explain any six.  
(OR)  
b) What is the importance of country charkha reeling appliance in sericulture?

**SECTION – C****(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS.****(16TH QUESTION IS COMPULSORY AND ANSWER ANY THREE****QUESTIONS FROM Q.NO: 17 TO 21 )****(K4) OR (K5)**

16. Write a detailed account on scope of sericulture, economical importance and limitations in silk industry in India.
17. Explain the climatic conditions, harvesting and preservation methods in moriculture.
18. Discuss - silkworm diseases and their management.
19. Give a detailed account of harvesting and marketing of silkworm cocoons.
20. Explain the disinfectant methods of silkworm rearing appliances.
21. Illustrate the structure and life cycle of *Bombyx mori* with well-labeled diagram.

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