18ZOU10

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2023
(Third Semester)

Branch – **ZOOLOGY**

SERICULTURE

Time: Three Hours Maximum: 50 Marks

SECTION-A (5 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks (5 x 1 = 5)

1. Name the technique of joining the parts of two plants in such a way that unite and grow as one plant.
   (i) Cutting (ii) Layering
   (iii) Grafting (iv) All the above

2. Find the causative agent of Violet root rot disease.
   (i) *Fusarium oxysporum* (ii) *Fusarium pallidorosum*
   (iii) *Rosellinia necatrix* (iv) *Helicobasidium mompa*

3. Mention the layer of silk gland that sheds at each moult in silkworm.
   (i) tunica propria (ii) glandular layer
   (iii) tunica intima (iv) peritreme

4. Define the terminology for transferring of newly hatched larvae from incubation tray to the rearing tray.
   (i) Bed cleaning (ii) Spacing
   (iii) Brushing (iv) Mounting

5. Indicate the definition for number of kilograms of cocoons required to obtain 1 kilogram of reeled silk.
   (i) Denier (ii) Renditta
   (iii) Shell ratio (iv) Reelability

SECTION - B (15 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 3 = 15)

6. a) Bring out the importance of sericulture.
   OR
   b) Classify the mulberry varieties.

7. a) Explain the deficiency diseases caused by Nitrogen.
   OR
   b) Narrate the causative organism and symptoms of Tukra disease.

8. a) Describe the morphology of silkworm egg.
   OR
   b) Analyze the structure of silk glands in silkworm.

Cont...

9. a) Compare the methods of incubation of silkworm eggs.

OR

b) State the methods of late age silkworm rearing.

10. a) Bring out the details of cocoon marketing.

OR

b) Calculate the by-products of sericulture.

SECTION -C (30 Marks)

Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 6 = 30)

11. a) Classify the species of silkworm.

OR

b) Categorize the methods of planting in mulberry.

12. a) Discuss the causative organism, symptoms and control measures of root rot diseases of mulberry.

OR

b) Justify the deficiency diseases caused by Potassium and Phosphorus.

13. a) Elucidate the structure of *Bombyx mori* larva with a neat diagram.

OR

b) Point out the life cycle of silkworm.

14. a) Analyze the CSB model rearing house.

OR

b) Enumerate the methods of young age silkworm rearing.

15. a) Identify the symptoms and control measures of Pebrine disease in silkworm.

OR

b) Highlight the life cycle of Uzi fly.

Z-Z-Z END