

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022  
(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. Which method of propagation is most popular in South India?  
(i) Cutting (ii) Grafting  
(iii) Layering (iv) Seedling
2. Name of the causative agent of powdery mildew disease.  
(i) *Rosellinia necatrix* (ii) *Fuarium oxysporum*  
(iii) *Helicobasidium mompa* (iv) *Phyllactinia corylea*
3. Identify the following is related to the eggs of silkworm moth.  
(i) Alecithal (ii) Centrolecithal  
(iii) Telolecithal (iv) Temolecithal
4. Indicate the appliance which is used for brushing newly- hatched larvae from the egg card to rearing trays.  
(i) Feathers (ii) Ant wells  
(iii) Chop sticks (iv) Mountage
5. Find the causative agent of Pebrine disease.  
(i) *Beauveria bassiana* (ii) *Bacillus sotto*  
(iii) *Nosema bombycis* (iv) *Serratia marcescans*

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. a) Bring out the scope of sericulture.  
OR  
b) Classify the species of silkworm.
7. a) Explain the deficiency diseases caused by Phosphorus.  
OR  
b) Narrate the causative organisms and symptoms of root rot disease in mulberry.
8. a) Describe the structure of larva of *Bombyx mori*.  
OR  
b) Analyze the structure of silk gland in silkworm.
9. a) Outline the incubation process of silkworm eggs.  
OR  
b) State the types of mountages used in India.

Cont...

10. a) How do you control the Uzi fly infection in silkworms?  
OR  
b) Summarize the types of disinfectants used in rearing house.

**SECTION -C (30 Marks)**

Answer ALL questions

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

11. a) Categorize the various grafting techniques for propagation of mulberry.  
OR  
b) Discuss the methods of irrigation in mulberry cultivation.
12. a) Justify the importance of macronutrients of mulberry plant.  
OR  
b) Highlight the causative agent, symptoms and control measures of powdery mildew diseases of mulberry.
13. a) Analyze the structure of *Bombyx mori* pupa with a neat diagram.  
OR  
b) Elucidate the life cycle of silkworm.
14. a) Differentiate any four rearing appliances used in silkworms being reared.  
OR  
b) Enumerate the methods of late age silkworm rearing.
15. a) Examine the causative organism, symptoms and control measures of Flacherie disease in silkworm.  
OR  
b) Point out the by-products of sericulture.

Z-Z-Z

END