
Second Year

SERICULTURE**Second Year (P.C. 108/71)****Subject : Rearing Requirements and Silkworm Pathology****Paper - I****Time : 3 Hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

1. Observe the displayed Tasar specimen and identify its characters with neat sketches.
2. Prepare 2% Formalin from the given concentration of commercially available Formalin.
3. Prepare 5% Bleaching solution from the given concentration of commercially available Bleaching.
4. Identify the given viral disease, write its symptoms and suggest control measures (A)
5. Identify the given fungal disease, write its symptoms and suggest control measures.
6. Dissect and display the given silkworm and write its identifications (A).

Section - II**1 x 8 = 8 Marks**

7. Observe and identify the given major pest, mention its identification characters and suggest preventive and control measures (A)
8. Observe the displayed Eri specimen and identify its characters with neat sketches
9. Dissect and display the given silkworm and write its identifications (B).
10. Identify the given bacterial disease, write its symptoms and suggest control measure(A)
11. Identify the given bacterial disease, write its symptoms and suggest control measure(B)
12. Identify symptoms of pebrine in the given stages of silkworm and record your observations.

Section - III**1 x 8 = 8 Marks**

13. Draw the ground plan of CSB model rearing house with neat labeling.
14. Observe the displayed Muga specimen and identify its characters with neat sketches.
15. Prepare 2.5 % Sanitech solution from the given concentration of commercially available contents
16. Study the displayed equipment and confirm their usage in silkworm rearing.
17. Record the rearing details in different types of records.
18. Observe the chart / model and identify the reproductive system (A) and draw labeled diagram.

Section - IV**1 x 8 = 8 Marks**

19. Identify the given viral disease, write its symptoms and suggest control measures (B)
20. Identify the given bacterial disease, write its symptoms and suggest control measure(C)
21. Observe and identify the given major pest, mention its identification characters and suggest preventive and control measures (B)
22. Observe the chart / model and identify the reproductive system (B) and draw labeled diagram.
23. Draw neat labeled generalized structure of Pebrine spore and suggest few preventive measures
24. Demonstrate disinfection of rearing equipments.

Section - V**4 x 2 = 8 Marks****Identification of any four**

25. Non – Mulberry stages and food plants.
26. Rearing equipments (Chawki and Late age).
27. Rearing disinfectants.
28. Diseases.
29. Pests. 30. Mountages.

Section - VI

Record

5 Marks

Viva Voce

5 Marks

SERICULTURE**Second Year****MODEL QUESTION PAPER****Subject : Rearing Requirements and Silkworm Pathology****Paper - I****Time : 3 hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

3. Prepare 5% Bleaching solution from the given concentration of commercially available Bleaching.

Section - II**1 x 8 = 8 Marks**

8. Observe the displayed Eri specimen and identify its characters with neat sketches

Section - III**1 x 8 = 8 Marks**

17. Record the rearing details in different types of records.

Section - IV**1 x 8 = 8 Marks**

24. Demonstrate disinfection of rearing equipments.

Section - V**4 x 2 = 8 Marks**

25. Non – Mulberry stages and food plants.
26. Rearing equipments (Chawki and Late age).
27. Rearing disinfectants.
28. Diseases.

Section - VI

Record

5 Marks

Viva Voce

5 Marks

Note : The Serial numbers of the questions mentioned above are the serial numbers in question bank. In practical examination only the serial number of the questions will be given, the examiner shall decode it with question bank and give the questions.

SERICULTURE

Second Year

PRACTICAL SCHEME OF VALUATION KEY**Subject : Rearing Requirements and Silkworm Pathology****Paper - I****Time : 3 hours****Max. Marks : 50****Section - I,II,III,IV****(1 x 8 = 8 Marks)**

Objective and Procedure	: 3 Marks
Demonstration	: 2 Marks
Diagram / Tables / Observation	: 3 Marks

Section - V**(4 x 2 = 8 Marks)**

Identification	: 1 Mark
Discription	: 1 Marks

Section VI

Record	: 5 Marks
Viva Voce	: 5 Marks

SERICULTURE**Second Year (P.C. 108/72)****Subject : Silkworm Rearing Technology****Paper - II****Time : 3 Hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

1. Demonstrate the black boxing for given eggs and write procedure.
2. Demonstrate the brushing for just hatched worms from the given egg sheets.
3. Demonstrate chawki rearing method and write procedure.
4. Demonstrate the method of shoot rearing and write procedure.
5. Demonstrate Bed cleaning by net method for young age silkworms and write procedure.
6. Demonstrate spacing for given 10 DFLs Silkworms IV & V instar and record your observations.

Section - II**1 x 8 = 8 Marks**

7. Calculate hatching and dead eggs percentage from the given egg sheets.
8. Calculate the ERR % of given number of cocoons and the number of larvae at 3rd instar by number and by weight.
9. Demonstrate harvesting of cocoons from mountages and record your observations.
10. Demonstrate sorting of harvested cocoons and record your observations.
11. Calculate the Leaf Cocoon Ratio for given cocoon yield and consumption of leaves to the worms.
12. Identify the given mountage, write its characters and record your observations.

Section - III**1 x 8 = 8 Marks**

13. Demonstrate glossy leaf selection method from the branches.

14. Demonstrate the method of shelf rearing and write procedure.
15. Demonstrate the method of shoot feeding and write procedure.
16. Demonstrate the process of silkworm egg incubation.
17. Identify the moulting characters and suggest care before, during and after moulting.
18. Identify displayed mountages and conclude the merits and demerits of respective mountages.

Section - IV
Identifications of any four

4 x 2 = 8 Marks

19. Egg stages.
20. Silkworm stages.
21. Moulting worms
22. Rearing operations
23. Rearing operations
24. Mountages.

Section - V

1 x 8 = 8 Marks

25. Submit the individual Field report / Rearing report.
26. Submit the individual Field report / Rearing report.
27. Submit the individual Field report / Rearing report.
28. Submit the individual Field report / Rearing report.
29. Submit the individual Field report / Rearing report.
30. Submit the individual Field report / Rearing report.

Section - VI

- | | |
|-----------|----------------|
| Record | 5 Marks |
| Viva Voce | 5 Marks |

SERICULTURE**Second Year****MODEL QUESTION PAPER****Subject : Silkworm Rearing Technology****Paper - II****Time : 3 hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

3. Demonstrate chawki rearing method and write procedure.

Section - II**1 x 8 = 8 Marks**

9. Demonstrate harvesting of cocoons from mountages and record your observations.

Section - III**1 x 8 = 8 Marks**

14. Demonstrate the method of shelf rearing and write procedure.

Section - IV**4 x 2 = 8 Marks**

19. Egg stages.

20. Silkworm stages.

21. Moulting worms

22. Rearing operations

Section - V**2 x 4 = 8 Marks**

29. Submit the individual Field report / Rearing report.

30. Submit the individual Field report / Rearing report.

Section - VI

Record

5 Marks

Viva Voce

5 Marks

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SERICULTURE**Second Year****PRACTICAL SCHEME OF VALUATION****Subject : Silkworm Rearing Technology****Paper - II**

Time : 3 hours	Max. Marks : 50
Section - I,II,III	(1 x 8 = 8 Marks)
Objective and Procedure	: 3Marks
Demonstration	: 2 Marks
Diagram / Tables / Observation	: 3 Marks
Section - IV	(4 x 2 = 8 Marks)
Identification	: 1 Mark
Discription	: 1 Marks
Section - V	(1 x 8 = 8 Marks)
Submission of field report	
Identification	: 2 Marks
Col lection	: 2 Marks
Classification	: 4 Marks
Section - VI	
Record	: 5 Marks
Viva Voce	: 5 Marks

SERICULTURE**Second Year (P.C. 108/73)****Subject : Post Cocoon Technology****Paper - III****Time : 3 Hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

1. Calculate the Shell ratio from the given cocoons.
2. Calculate the Renditta from given cocoons using the constants.
3. Conduct basket steaming or barrel steaming from the given cocoons and record your observations.
4. Conduct open pan cooking with given material and write down the procedure.
5. Conduct brushing process of cocoons cooked by open pan with stick brush method
6. Conduct process of reeling on Country Charkha and draw the diagram of thread formation and record observations

Section - II**1 x 8 = 8 Marks**

7. Calculate the defective cocoons percentage by wt and no from the given lot.
8. Conduct Three pan cooking with the given material and write down the procedure.
9. Make the thread formation in the process of silk reeling, draw line diagram and write procedure
10. Conduct process of reeling on Multi-end machine and draw the diagram of thread formation and record observations
11. Conduct Re – reeling for raw silk reeled on small reels and write the procedure.
12. Conduct hot air drying for the given cocoons and record your observations.

Section - III**1 x 8 = 8 Marks**

13. Find out length of the filament in the given cocoon and write down the procedure.
14. Make the Chambon and Taveletta croissures and draw the diagrams.
15. Find out the Denier and average Denier of the filament from the given cocoons and write the procedure.
16. Perform Lacing and Skeining for given hank and write the procedure.
17. Perform Degumming with given material and write down the procedure.
18. Perform Dyeing to the given raw silk with given materials and write down the procedure.

Section - IV**4 x2 = 8 Marks****Identification of any four**

19. Parts of cocoon
20. Cocoon varieties
21. Reeling parts
22. Reeling operations
23. Raw silk testing appliances
24. By – products

Section - V**1 x 8 = 8 Marks**

25. Submit the individual Field report / Rearing report.
26. Submit the individual Field report / Rearing report.
27. Submit the individual Field report / Rearing report.
28. Submit the individual Field report / Rearing report.
29. Submit the individual Field report / Rearing report.
30. Submit the individual Field report / Rearing report.

Section - VI

Record

5 Marks

Viva Voce

5 Marks

SERICULTURE**Second Year****MODEL QUESTION PAPER****Subject : Post Cocoon Technology****Paper - III****Time : 3 hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

3. Conduct basket steaming or barrel steaming from the given cocoons and record your observations.

Section - II**1 x 8 = 8 Marks**

11. Conduct Re – reeling for raw silk reeled on small reels and write the procedure.

Section - III**1 x 8 = 8 Marks**

14. Make the Chambon and Taveletta croissures and draw the diagrams.

Section - IV**4 x 2 = 8 Marks**

20. Cocoon varieties
21. Reeling parts
22. Reeling operations
23. Raw silk testing appliances

Section - V**1 x 8 = 8 Marks**

27. Submit the individual Field report / Rearing report.

Section - VI

Record

5 Marks

Viva Voce

5 Marks

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SERICULTURE**Second Year****PRACTICAL SCHEME OF VALUATION****Subject : Post Cocoon Technology****Paper - III****Time : 3 hours****Max. Marks : 50****Section - I,II,III****(1 x 8 = 8 Marks)**

Objective and Procedure : 3Marks

Demonstration : 2 Marks

Diagram / Tables / Observation : 3 Marks

Section - IV**(4 x 2 = 8 Marks)**

Identification : 1 Mark

Discription : 1 Mark

Section - V**(1 x 8 = 8 Marks)**

Submission of field report / herbarium

Identification : 2 Marks

Col lection : 2 Marks

Classification : 4 Marks

Section - VI**Record : 5 Marks****Viva Voce : 5 Marks**