

**CERTIFICATE IN SERICULTURE (CIS)**

**Term-End Examination**

**December, 2013**

**BLPI-003 : SILKWORM REARING**

*Time : 2 hours*

*Maximum Marks : 50*

---

*Note : Answer any five questions. All questions carry equal marks.*

---

1. Answer the following in 5-6 sentences (any five) :
  - (a) What is the ideal temperature and humidity required to rear I and II instar of Mulberry silkworms ? 5x2=10
  - (b) How surface contamination is eliminated ?
  - (c) What is diapause ?
  - (d) Why good ventilation is required during incubation ?
  - (e) Write the Symptoms of mounting larvae ?
  - (f) Why Rotary mountages at best among all the mountages ?
  - (g) Why cocoon weight decreases gradually ?
  
2. Define the following (any five) : 5x2=10
  - (a) Break even point
  - (b) Mounting of larva
  - (c) Bed cleaning
  - (d) Flame gun
  - (e) Ren ditta
  - (f) Dupion silk
  - (g) Brushing of loose eggs

3. Differentiate the following: 5x2=10
- (a) Melted cocoon Vs Thin-end cocoon
  - (b) Cocoon weight Vs Shell weight
  - (c) Monoperiod resource Vs Poly period resource
  - (d) Moltinism Vs voltinism
  - (e) Floor area Vs Bed area
4. Fill in the blanks : 10x1=10
- (a) Duration of black boxing ranges from \_\_\_\_\_ hrs. to \_\_\_\_\_hrs. after the head pigmentation stage.
  - (b) Lakshman Rekha is a \_\_\_\_\_ chalk.
  - (c) \_\_\_\_\_ mountages are the best among all the mountages.
  - (d) The primary food plant of Eri silkworm is \_\_\_\_\_ .
  - (e) The number of eggs per dfl is commonly known as \_\_\_\_\_ .
  - (f) \_\_\_\_\_ litre of disinfectant solution is required to disinfect 1 sq.mt. of floor area.
  - (g) Mulberry shoots are preserved in \_\_\_\_\_ position.
  - (h) Benefit cost ratio should not be equal to \_\_\_\_\_ for continuing business.
  - (i) Removal of odd shaped and defective cocoons from the lot is called \_\_\_\_\_ of cocoons.
  - (j) The insect passes through four distinctive stages egg, \_\_\_\_\_ , pupa and adult/moth.
5. (a) State 'True' or 'FALSE' 5x1=5
- (i) Fixed costs does not vary according to the level of production.
  - (ii) **Bombyx Mori** belongs to family Bombycidae

- (iii) Bivoltine silkworm breeds provide a higher yield with better quality of cocoon and rawsilk.
  - (iv) Wooden harvester is used for quick harvesting of cocoons in Bamboo Chandrike.
  - (v) Dupion silk is a regular Smooth Silk reeled from good cocoons.
- (b) Diagrammatically write a mulberry shoot and indicate the leaf suitable for I, II instar larvae. 5x1=5

6. Answer the following in one sentence (any ten) :

- (a) During summer how incubation is done.
- (b) What is brushing of larvae ? 10x1=10
- (c) What is pruning ?
- (d) What is used if paraffin paper is not available ?
- (e) What is embryo ?
- (f) Write the major food plants of Tasar Silkworm.
- (g) What is net return ?
- (h) Why separate room is required for preserving the leaf/shoot ?
- (i) Mention different types of silkworm produced in India.
- (j) What is deflossing ?
- (k) How Muga larvae are transferred to another plant when foliage of a plant is consumed ?
- (l) Write formula for calculating defective cocoon %.

7. Match the following : 10x1=10

- |                      |   |
|----------------------|---|
| (a) Black boxing     | (i) Plastic collapsible mountages                   |
| (b) Disinfection     | (ii) Uniform hatching                               |
| (c) Lakshman Rekha   | (iii) Farm yard manure                              |
| (d) Brushing         | (iv) Killing of disease causing pathogen            |
| (e) Vijetha          | (v) Chawki rearing centre                           |
| (f) Bleaching powder | (vi) Insecticidal Chalk                             |
| (g) One hectare      | (vii) Bed disinfectant                              |
| (h) CRC              | (viii) Transfer of new born larvae to rearing trays |
| (i) FYM              | (ix) 2.5 acres                                      |
| (j) Netrikes         | (x) Room disinfectant                               |

8. Write short notes on **any two** : 2x5=10

- (a) Disinfection of silkworm Rearing House.
  - (b) Rearing of Late-Age silkworms
  - (c) Sorting of cocoons
-