CERTIFICATE IN SERICULTURE (CIS)

Term-End Examination
December, 2011

00570

BLPI-003 : SILKWORM REARING

Time : 2 hours *Maximum Marks : 50*

Note : *This paper has **three** questions. Answer **any two** quesitons. Marks for each question are indicated against it.*

1. (a) Answer the following in **one** sentence each : **15x1=15**

(i) How do you identify the male silkworm larval ?

(ii) What is metamorphosis ?

(iii) What is voltinism ?

(iv) Classify the silkworm bared on voltinism.

(v) Name five popular mulberry multivoltine silkworm breeds.

(vi) What contributes to the leaf quality ?

(vii) What is disinfection ?

(viii) Why rearing house should be away from industrial areas ?

(ix) What is the ideal temperature and relative humidity required for incubation ?

(x) What plays a vital role in deciding the voltinism of the silkworm race during incubation ?

(xi) What is brushing ?

(xii) Name the primary food plants of Tasar silkworm

(xiii) In which region Oak Tasar is completely domesticated ?

(xiv) Write the different ecoraces/strains normally used in Eri silkworm rearing.

(xv) What is deflossing ?

(b) Write short notes on ***any five*** in 3 - 4 sentences each. **5x2=10**

(i) Process of loose egg brusting.

(ii) Mountages used in Oak Tasar silkworm rearing

(iii) Incubation of Tasar silkworm eggs

(iv) Natural mounting method in mulberry silkworm.

(v) Criteria for establishment of CRC

(vi) Different crops taken in muga culture

(vii) Black boxing of silkworm eggs.

2. (a) Fill in the blanks with appropriate word. **15x1=15**

(i) Eri silkworm feeds on _____.

(ii) Rearing of silkworms upto second moult is called _____ rearing.

(iii) In muga silkworm rearing, rearing appliances are disinfected with _____ % formaldehyde solution.

(iv) Pierced cocoons are due to emergence of _____ or _____ maggots.

(v) Mulberry leaves having _____ % protein is considered good for rearing.

(vi) The mulberry leaves should be harvested during _____ hours of the day.

(vii) *Antheraea proylei* is a hybrid of *A pernyi* and _____.

(viii) Scientific name of silkworm is *Bombyx mori*

(ix) The insect passes through four distinctive stages namely egg, larva, pupa and _____.

(x) Scientific name of _____ silkworm is *Philosamia ricini.*

(xi) The improved hybrids like $CSR_2 \times CSR_5$ consume about _____ kg of mulberry leaf per dfl.

(xii) Cost incurred on equipments can be classified under _____ costs.

(xiii) _____ are the persons who converts cocoone into silkyarn

(xiv) Dupion silk is an irregular, rough silk reeled from _____ cocoons.

(xv) Characters transmitted from_____ to offspring is called inheritance.

(b) Write **"TRUE" or "FALSE"** **10x1=10**

(i) Net returns refers to the income left after meeting the fixed and variable costs.

(ii) 2.5 litres of disinfectant solution is required to disinfect 1 sq. meter floor area.

(iii) Benefit cost ratio should be equal to zero for continuing the business

(iv) Renditta refers to the number of larvae required to produce 1 kg of raw silk.

(v) Hybrids yields more than pure races.

(vi) Tapioca leaf is food of mulberry silkworm

(vii) The growth rate of chawki worms is slightly higher when compare to grown larvae.

(viii) Eri Silkworm rearing is done outdoors.

(ix) Tasar silkworm feeds on *Ricinus Communis.*

(x) The number of eggs per dfl is commonly known as fecundity.

3. (a) Answer ***any five*** in 5 - 6 sentences each. **5x3=15**

(i) What are non-diapause eggs ?

(ii) Advantages of CRC.

(iii) Different spinning mountages used in ericulture.

(iv) Transportation of mulberry cocoons.

(v) Renditta

(vi) Significance and assessment of cocoons for defective cocoon percentage.

(vii) Melted/stained cocoons.

(b) Differentiate between the following (3 - 4 sentences each) **5x2=10**

(i) Cocoon harvestor and cocoon deflosser

(ii) Tray rearing and bunch rearing in Eri

(iii) Multivoltine and Bivoltine

(iv) Bullock pair day and man day

(v) Harvesting of leaves and cocoons.