

CERTIFICATE IN SERICULTURE (CIS)

Term-End Examination

June, 2013

00451

BLP-001 : INTRODUCTION TO SERICULTURE

Time : 2 hours

Maximum Marks : 50

Note : Attempt any five questions. All questions carry equal marks.

1. Define any ten of the following : 10x1=10
- (a) Disease free laying
 - (b) Disinfection
 - (c) Moulting
 - (d) Bio-control agent
 - (e) Business opportunity
 - (f) Diapause
 - (g) Spinning
 - (h) Renditta
 - (i) Brushing
 - (j) Pirn winding
 - (k) Bole
 - (l) Degumming

2. (a) What are the states that practice Sericulture ? 5x2=10
- (b) What are the quality parameters of silk ?
- (c) Explain the role of self Help Groups in Sericulture.
- (d) Explain the process of preparation of seed mulberry cuttings for raising saplings.
- (e) List out the characters of chawki silkworms.
3. (a) List out the package of practices for chawki garden. 5x2=10
- (b) What are the methods available for rearing silkworms ?
- (c) How do you prepare compost as a method of waste recycling ?
- (d) What are the materials required to take up disinfection services as a business opportunity ?
- (e) What is the requirement of single super phosphate to supply 11.2 kg of phosphorus ?
4. (a) What are the norms for seed cocoon quality ? 5x2=10
- (b) Which are the major states practicing sericulture in India.
- (c) Why bivoltine egg sheets are dipped in 2% formalin solution before acid treatment ?

- (d) What is the required temperature gravity and dipping duration for hot acid treatment ?
- (e) Explain the process of preparing starched egg sheets.
5. (a) What are the byproducts of mulberry cultivation and silkworm rearing ? $5 \times 2 = 10$
- (b) What are the uses of silk ?
- (c) Given the weight of 1000 meters of silk as 0.300 gm, what is its denier.
- (d) If 15 g of raw silk obtained by reeling 100 g of cocoons, what is the raw silk yield percent ?
- (e) Explain the process of cocoon storage or preservation of stifled cocoons.
6. (a) If the weight of 20 cocoons is 40 g and the shell weight of 20 cocoons is 8 g, calculate the shell ratio. $5 \times 2 = 10$
- (b) What is silk ?
- (c) List out different schemes under different 5 year plan periods in which sericulture played an important role.
- (d) What is Gross Domestic Product (GDP) ?
- (e) Write down the long form for NABARD and KVIC.

7. (a) What are graineurs ? 5x2=10
- (b) List out the location of Sericulture training schools owned by different states for sericulture.
- (c) Write down the classification of training needs.
- (d) List out the items of Non-recurring cost for silkworm rearing.
- (e) Write down the methods of controlling Vzifly.
8. Fill in the blanks with appropriate words. 10x1=10
- (a) India produces _____ percent of silk in multivoltine form.
- (b) Muga silk contributes only _____ percent to the country's total raw silk production.
- (c) One acre of mulberry garden provide job to _____ persons through out the year.
- (d) Wastes generated out of one hectare of mulberry cultivation and silkworm rearing produces _____ kg of vermi-compost.
- (e) Leaf requirement for chawki rearing of 5000 dfls of silkworms is _____.

- (f) The common name of *cryptoleamus montrouzieri* is _____.
- (g) The recommended dosage of NPK fertilizers for one acre Irrigated mulberry garden is _____ kg.
- (h) _____ are used as biofactories for the production of useful proteins.
- (i) _____ silkworm pupu will be round and bigger in size.
- (j) Mother moth examination is conducted for identifying _____ disease.
- _____