

CERTIFICATE IN SERICULTURE (CIS)

Term-End Examination

00988

December, 2011

BLPI-002 : HOST PLANT CULTIVATION

Time : 2 hours

Maximum Marks : 50

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

1. Fill in the blanks (*any ten*) : **10x1=10**
- (a) Mulberry is a _____ rooted plant.
 - (b) Mulberry is cultivated both under _____ and _____ conditions.
 - (c) Before planting , the cuttings / saplings are treated with _____ for 20 minutes.
 - (d) V.1 mulberry variety yields about _____ mt. /hectare / year under irrigated conditions.
 - (e) The most common method of irrigation followed in mulberry plantation is _____.
 - (f) Drip irrigation saves about _____% of irrigation water.
 - (g) In _____ method of harvest, leaves are harvested by picking individually.
 - (h) Tasar food plants are propagated through _____.

- (i) _____ is the most important food plant used in Eri silkworm rearing.
- (j) Green manuring plants can fix _____ in the soil.
- (k) Farm yard manure is applied at _____ Mt./hectare/year under irrigated mulberry plantation.
- (l) Under 90 x 90 cm. spacing, one hectare accomodates _____ number of plants.
2. (a) Which type of soil is preferred for Mulberry cultivation ? 2
- (b) Which are the common organic manures used in mulberry cultivation ? 2
- (c) What is soil fertility ? 2
- (d) Name two commercially available bio-fertilizers used in Mulberry cultivation. 2
- (e) Name any two advantages of shoot harvest. 2
3. (a) Name any four measures of soil conservation. 4
- (b) Name any two methods of irrigation followed in mulberry cultivation. 2
- (c) Name any two advantages of thinning of branches. 2
- (d) Name two common perennial weeds found in mulberry plantation. 2

4. (a) Name two primary food plants of muga silkworm. 2
- (b) Which are the two popular mulberry varieties grown in temperate region of India? 2
- (c) Name two secondary food plants of Eri silkworm. 2
- (d) What are the methods of application of fertilizers followed in mulberry cultivation? 2
- (e) What does application of urea and SSP supply to the plants? 2
5. (a) What is mechanization? How it is useful in sericulture? 4
- (b) Which are the main climatic zones in North India? 2
- (c) Under what conditions are mulberry trees maintained in North India? 2
- (d) What is the importance of application of organic manure in mulberry cultivation? 2
6. (a) How many mandays are required to maintain one hectare of mulberry garden annually? 2
- (b) How many cuttings manually can a person prepare in a day? 2
- (c) Name any two sprayers used in mulberry cultivation. 2
- (d) Name any two Machines which can be used for mechanization in mulberry cultivation. 4

7. Answer the following by *True* or *False* :

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- (a) Mulberry leaf is the sole food for silkworms []
- (b) About 10% of the cost of production of cocoons goes towards leaf production. []
- (c) High alkaline soils are good for mulberry. []
- (d) S₃₆ is a local mulberry variety. []
- (e) Row system of plantation is better than pit system of plantation. []
- (f) Young silkworm desires hard and coarse leaf. []
- (g) Chawki mulberry garden requires less irrigation. []
- (h) Mulberry cultivation is highly labour dependent. []
- (i) Muga silkworm rearing is done throughout India. []
- (j) Muga food plants are propagated through bud grafts. []

8. (a) Name any two weeding tools used in mulberry cultivation. 2
- (b) Name two green manuring crops used in mulberry cultivation. 2
- (c) What precautions are to be taken while transporting mulberry leaf for rearing silkworms ? 2
- (d) What precautions are to be taken while preserving mulberry leaf ? 2
- (e) Name any two types of grafting followed in Mulberry propagation. 2
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