

CERTIFICATE IN SERICULTURE (CIS)

Term-End Examination

June, 2013

BLPI-002 : HOST PLANT CULTIVATION

Time : 2 hours

Maximum Marks : 50

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

1. (a) Describe the methods of harvest followed in mulberry cultivation. 5x2=10
 - (b) What is thinning ?
 - (c) List out two advantages of pruning.
 - (d) Describe a pruning process of Tasar food plant.
 - (e) What is glycel ?

2. (a) What are the common organic manures used in mulberry cultivation ? 5x2=10
 - (b) Name two green manuring crops used in mulberry cultivation.
 - (c) Why are fertilizers applied to mulberry plant ?
 - (d) What are different types of biofertilizers used in mulberry cultivation ?
 - (e) Write about fertilizer doses and their application for growing castor plants.

3. (a) What do you mean by rainfed mulberry cultivation ? 5x2=10
- (b) Name two mulberry varieties recommended for hilly regions.
- (c) Name two popular mulberry varieties grown in temperate region.
- (d) Which system of mulberry plantation is practised in South India ?
- (e) Mention the primary food plant species of Muga silkworm and its distribution in different parts of India.
4. (a) What is root grafting ? 5x2=10
- (b) What is the rate of FYM to be applied to mulberry nursery ?
- (c) Why soil should be pressed around the cutting while planting ?
- (d) Describe transplanting of tasar host plant seedlings into a field.
- (e) Write down the method of propagation of Muga food plant through air layering.
5. (a) Describe the need for soil moisture conservation. 5x2=10
- (b) Give two advantages of using drip irrigation.
- (c) What precautions are to be taken while preserving mulberry leaf for silkworm rearing ?
- (d) How many times leaf can be harvested from chawki mulberry garden in one year ?

- (e) How much silkworm can be chawki reared annually using leaf from one hectare of chawki garden under mulberry variety V-1 ?
6. (a) Disc ploughing is specifically used under which type of land condition ? $5 \times 2 = 10$
- (b) How many mulberry cuttings can cutting machine prepare in one hour ?
- (c) Name any two weeding tools used in mulberry cultivation.
- (d) How many mandays are required to maintain one hectare of mulberry garden manually ?
- (e) How does mechanization help in Sericulture ?
7. (a) Fill in the blanks : $5 \times 1 = 5$
- (i) The primary food plants for tropical tasar silkworm are Sal, Arjun and _____.
- (ii) Muga silkworm primarily feeds on leaves of Soalu and _____.
- (iii) _____ soils have pH more than 7.
- (iv) Process of conversion of organic residue into manure by earthworms is known as _____.

- (v) A mulberry garden raised specifically to obtain quality leaf for young age silkworms is called _____ garden.
- (b) Write a short note on disease and pest management of eri food plants. 5
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