

# ASSIGNMENTS

for

January 2022

and

July 2022 Sessions

## Certificate in Sericulture (CIS)

*(Developed in Collaboration with Central Silk Board, Ministry of Textiles, GoI)*



**School of Agriculture**  
**Indira Gandhi National Open University**  
**New Delhi – 110 068**

## LAST DATE FOR SUBMISSION OF ASSIGNMENTS

Course Code	Last Date for Submission of Assignments at PSC	
	January 2022 Session	July 2022 Session
BLP -001	15 <sup>th</sup> March 2022	15 <sup>th</sup> August 2022
BLPI-002	15 <sup>th</sup> March 2022	15 <sup>th</sup> August 2022
BLPI-003	30 <sup>th</sup> March 2022	30 <sup>th</sup> September 2022
BLP -004	30 <sup>th</sup> March 2022	30 <sup>th</sup> September 2022

### Note:

- Kindly submit your assignments at the concerned study centre/PSC within the due date as mentioned above.
- Before submitting the examination form (March and September for June and December Term-end examinations, respectively), it is essential to submit the assignment and get authentication from Programme-in charge or Coordinator of the study centre/PSC for the courses you will be appearing for.

Dear learner,

Welcome to the “Certificate in Sericulture” (CIS) programme.

We hope that you have gone through the Programme Guide of CIS programme carefully and completely. The weightage to the Term-End Examination (TEE) will be 80% and weightage to the continuous assessment (Assignments) will be 20%. There is one assignment for each course with theory component i.e. four assignments for the programme (BLP-001, BLPI-002, BLPI-003 and BLP-004). Each assignment will be of 50 marks which will be ultimately converted to have weightage of 20% of the theory. You are requested to go through the course materials first and then prepare the assignment response following the instructions. Your responses should not be a complete reproduction of the textual material/blocks provided for self-learning purposes. Please submit your assignment responses at the Study Centre allotted to you on or before the due date. The assignments will be evaluated by the Counsellors at the study centre/Programme Study Centre (PSC) and the respective weightage of marks will be added to the percentage of marks obtained at the term-end examination. Each candidate will have to complete assignments in order to appear in the term-end examination. Candidates are, therefore, advised to take assignments seriously and submit them in time.

**General Instructions**

- 1) If you fail to submit the assignments before the due date of the particular session, you are supposed to attempt the fresh set of assignment of subsequent sessions.
- 2) Write your Enrolment Number, Name, Full Address and Date of Despatch at the top right-hand corner of the first page of your answer sheet.
- 3) Write the Programme Title, Course Title, Assignment Code, Code and Place of the Study Centre on the left- hand corner of the first page of your answer sheet.

The top of the first page of your answer sheet for each assignment should be as follows:

Programme Title .....	Enrolment No .....
Course Code .....	Name .....
Course Title .....	Address .....
Study Centre Code.....	.....
(Place) .....	Date .....

**Note:** Students are required to follow this format strictly.

- 4) Your answer sheet should be complete in all respects. Make sure that you have answered to all the questions in assignments before you submit them. Incomplete answer sheets will yield poor marks.
- 5) As far as possible, you are advised to give the relevant points from the course material and elaborate their answers and explanations in their own language instead of reproducing the language of the course materials.
- 6) You are advised not to copy from the study material while attempting the assignments. In case it is found that the assignments have been copied from study material, you will be awarded zero marks.
- 7) Avoid copying from the answer sheets of other students. If copying is noticed, the assignments of such students will be rejected.
- 8) Use only foolscap size paper for your answers, ordinary writing paper, neither too thick nor too thin, will do. Assignments should be hand written. Typed assignment are not acceptable.
- 9) Leave 3”margin on the left and at least 4 lines in between each answer in an assignment. This will enable your Counsellor to write useful comments in appropriate places. Write question number for each answer clearly.
- 10) The coordinator of your Study Centre/PSC will return the evaluated assignments to you. This will also include a copy of assessment sheet containing global comments of the evaluator on your performance in the assignments. This will enable you to improve in your future assignments as well as in the term-end examinations.
- 11) The Assignments should be sent or submitted to the Programme In-charge/ Coordinator of the Study Centre/PSC allotted to you.

**Before attempting the assignments, please read the instructions carefully.**

Wishing you all the best for successful completion of the CIS programme.

**HAPPY LEARNING!**

**Programme Coordinator (CIS)**

## **BLP-001: INTRODUCTION TO SERICULTURE**

**Maximum Marks: 50**

**Answer all questions. All questions carry equal marks.**

**(10x5=50)**

1. Name the four types of silkworm reared in India. Explain them in detail with reference to silkworm species, host plant, contribution to India's silk production and the states in which they are produced.
2. Describe the lifecycle of a silkworm with the help of a diagram.
3. Sericulture fetches more money in short span than any other agricultural crop. Justify the statement in your own words.
4. Identify the major stakeholders involved in sericulture industry. Give their roles.
5. Describe the role of different organizations/institutions in the human resource development in sericulture industry.
6. List the different business opportunities available in the Sericulture Industry.
7. Differentiate between female and male pupa. What are the steps involved in sex separation of silkworm pupa?
8. Describe the different steps involved in loose egg production.
9. Silkworm larval litter can be utilized as an excellent organic fertilizer and animal feed - Justify.
10. Define the following:
  - a. Reelability
  - b. Stifling
  - c. Brushing
  - d. Book Making
  - e. Degumming

## **BLPI-002: HOST PLANT CULTIVATION**

**Maximum Marks: 50**

**Answer all questions. All questions carry equal marks.**

**(10x5=50)**

1. Explain the process of preparation of nursery.
2. Define pruning. Describe the different methods of pruning practiced in mulberry cultivation.
3. What is harvesting schedule to be followed in a chawki mulberry garden?

4. Define mechanization. Give its advantages. What is the scope of mechanization in sericulture?
5. List the machines used in the application of chemicals in mulberry gardens. Explain them in detail.
6. Explain the method of transportation and preservation of mulberry leaves practiced in North India.
7. Describe the irrigation, soil moisture conservation and weeding practices followed in East/North Eastern India.
8. Explain the soil fertility management for Tasar Food plants.
9. How Muga food plants are propagated? Explain them in detail.
10. Describe the method of cultivation of Tapioca.

### **BLPI-003: SILKWORM REARING**

**Maximum Marks: 50**

**Answer all questions. All questions carry equal marks.**

**(10x5=50)**

1. Describe the lifecycle of Muga silkworm with the help of a diagram.
2. What is disinfection? Explain the process of disinfection of silkworm rearing house and appliances.
3. What are the characteristics of an ideal silkworm rearing house?
4. Describe the process of black boxing of silkworm eggs.
5. Briefly describe the chawki rearing practices.
6. List the different methods of rearing late age silkworms. Explain any one method in detail.
7. Describe the different mounting methods practiced in late age silkworm rearing.
8. Explain the process of incubation, brushing and rearing of Eri silkworms.
9. Define the following:
  - a. Deflossing
  - b. Dupion
  - c. Renditta
  - d. Flimsy cocoon
  - e. Shell ratio (%)
10. Explain the concept of break-even point with the help of a diagram.

## **BLP-004: CROP PROTECTION**

**Maximum Marks: 50**

**Answer all questions. All questions carry equal marks.**

**(10x5=50)**

1. Explain the causal agent, period of occurrence, crop loss, symptoms and control measures of Root Knot Disease.
2. What are the precautions to be taken before, during and after spraying fungicides?
3. Give the period of occurrence and any one characteristic signs/symptoms of the following pest infestation in mulberry:
  - a. Mealy bug
  - b. Jassid
  - c. Bihary Hairy Caterpillar
  - d. Stem borer
  - e. Thrips
4. Enlist the factors responsible for pest outbreak in mulberry plantation.
5. Give the causative agent, period of occurrence, source and route of infection, symptoms and management of Flacherie disease.
6. Describe the hygienic practices to be followed during silkworm rearing.
7. Explain the different methods practiced for control and management of Uzi fly.
8. Give the causal organism, period of occurrence, damage caused, symptoms and control measures of Red Rust Disease in Muga silkworm host plants.
9. Give the period of occurrence and any one characteristic signs/symptoms of the following disease:
  - a. Microsporidiosis in Tasar Silkworm
  - b. Muscardine in Muga Silkworm
  - c. Pebrine in Eri silkworm
  - d. Bacteriosis in Oak Tasar Silkworm
  - e. Grasserie in Eri Silkworm
10. List the important predators of Tasar Silkworm. Explain any one in detail.