

2020

SERICULTURE

Paper: Course-12 (Gr. A & B)

(Silkworm Seed Technology)

Full Marks : 60 Time : 2½ Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP-A

(Marks: 30)

(Seed Organization)

1. Answer any **five** questions: $1 \times 5 = 5$
 - a) What do you mean by reproductive seed?
 - b) What are foundation hybrids?
 - c) Name any two methods of monitoring seed crop.
 - d) Mention size and colour of silkworm eggs.
 - e) What is the purpose of screening of egg shells?
 - f) What do you mean by Breeders stock?
 - g) Mention the duration of oviposition of silkmoth.
2. Answer any **three** of the following : $5 \times 3 = 15$
 - a) Discuss briefly the rearing of parental seed cocoons.

[Turn Over]

- b) Describe the structure of silkworm eggs with a diagram.
 - c) State the characteristics of pure races.
 - d) Write about the criteria of price fixation for seed cocoons.
 - e) Briefly describe the disinfection methods and maintenance of hygiene during rearing.
3. Answer any **one** of the following : $10 \times 1 = 10$
- a) What do you mean by seed organisation? Write briefly on indigenous and evolved silkworm breeds. What are the objectives of seed cocoon market?
 - b) Write short notes on (any **two**):
 - i) Pupal examination.
 - ii) Basic stock maintenance.
 - iii) Screening of faecal matters for disease

GROUP-B

(Marks: 30)

(Handling, Preservation and Production of Commercial Eggs)

4. Answer any **five** questions: $1 \times 5 = 5$
 - a) What is surface sterilization of silkworm eggs?
 - b) What do you mean by decoupling of moths?

- c) Name any two Grainage equipments.
- d) Mention the types of silkworm egg.
- e) Write down the objective of mother moth examination.
- f) What do you mean by intermediate temperature for silkworm egg preservation?
- g) What do you mean by aestivation period related to cold storage?

5. Answer any **three** of the following : $5 \times 3 = 15$

- a) Briefly describe the short term chilling and long term chilling.
- b) How does temperature and photoperiod affect the hatching of eggs?
- c) Write down the economics of egg production with special reference to cost management.
- d) Describe different methods of transportation of eggs.
- e) Briefly write on quality control in commercial grainage.

6. Answer any **one** of the following : $10 \times 1 = 10$

- a) Explain the method of preparation of loose eggs. Add a note on advantage and disadvantage of loose egg preparation.

b) Write short notes on (any **two**) :

- i) Early test for detection of Pebrine disease.
- ii) Role of humidity in hatching of eggs and cocoon preservation.
- iii) Procedures of mother moth selection.

Date of Examination:

20.7.2021, Time: 12:00 Noon – 02:30 PM