

CD460



Y-585

Sl.No. 0003

Total No. of Pages : 2

IV Semester B.Sc. Examination, September - 2020

(Scheme : CBCS-2016-2018 Batches)

SERICULTURE

Physiology of Mulberry and Silkworm (Paper - IV)

Time : 3 Hours

Max. Marks : 70

- Instructions : 1. All questions are compulsory.  
2. Write diagrams wherever necessary.

I. Answer the following questions. [5×1=5]

- 1) Name the any two micro nutrients.
- 2) What is passive absorption?
- 3) What is excretion?
- 4) Expand SNS.
- 5) What is metamorphosis?

II. Write short notes on any five of the following: [5×3=15]

- 6) Ion exchange.
- 7) Biofertilizers.
- 8) Abscisic acid.
- 9) Malpighian tubules.
- 10) Haemolymph.
- 11) Lateral Ocelli.
- 12) Oviposition.

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**III.** Answer any four of the following:

**[4×5=20]**

- 13) Explain the active absorption.
- 14) Write an account on biochemical composition of mulberry leaf.
- 15) Explain the role of environmental factors on mulberry growth.
- 16) Explain the mechanism of respiration in silkworm larva.
- 17) Give an account on the endocrine glands and their function.
- 18) Write the ultra structure of skeletal muscle.

**IV.** Answer any three of the following:

**[3×10=30]**

- 19) Write an account on cyclic photophosphorylation.
- 20) Explain the biological nitrogen fixation in plants.
- 21) Explain:
  - a) Mechanism of stomata in transpiration.
  - b) Male reproductive system.
- 22) Give a detailed account on the assimilation and digestion of digestive system of silkworm larva.
- 23) Explain the different types of nervous system in silkworm larva. Write a note on the nerve impulse.

