CD460 **Y-134**

Sl.No. 0071 Total No. of Pages : 2

IV Semester B.Sc. Examination, April/May 2019

(Semester Scheme: CBCS) (2016 Batch Onwards)

SERICULTURE

Physiology of Mulberry And Silkworm (Paper-IV)

Time : 3 Hours **Max. Marks : 70**

Instructions : *1) Answer All questions.*

2) Draw diagrams wherever necessary.

I. Answer the following. **[5×1=5]**

Q1) What is active absorption?

Q2) Define climate.

Q3) What is the role of taenidium?

Q4) Write the role of alary muscles.

Q5) Write the functions of integument.

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

Q6) Mechanism of water absorption.

Q7) Azatobactor.

Q8) Role of water on mulberry growth.

Q9) Gibberlic acid.

Q10) Digestive enzymes.

P.T.O.

Q11) Subesophageal ganglion.

Q12) Female accessory glands.

III. Answer any four of the following. **[4 ×5 =20]**

Q13) Write an account on macronutrients.

Q14) Explain the biochemical composition of mulberry leaf.

Q15) Explain photorespiration.

Q16) Describe the structure and function of excretory system.

Q17) Write an account on mechanoreceptors.

Q18) Explain the mechanism of muscle contraction.

IV. Answer any three of the following: **[3 ×10 =30]**

Q19) Write an account of transpiration in plants.

Q20) Explain the steps of C3 cycle.

Q21) Explain the mechanism of respiration in insects. Add a note on factors affecting respiration.

Q22) Write an account on circulation in silkworm Bombyx mori. Add a note on haemolymph.

Q23) What is metamorphosis? Explain its types with an example each in detail.