

CD 460/13446



IV Semester B.Sc. Examination, April/May 2018

(CBCS) (2016 Batch)

SERICULTURE

Paper – IV : Physiology of Mulberry and Silkworm

Time : 3 Hours

Max. Marks : 70

- Note :** 1) Answer *all* questions.
2) Draw diagram *wherever* necessary.

- I. Answer the following : (5×1=5)
- 1) What is root pressure ?
 - 2) Write the functions of Carotenoids.
 - 3) What are phagostimulants ?
 - 4) What is synopsis ?
 - 5) Write the role of male accessory glands.
- II. Write short notes on **any five** of the following : (5×3=15)
- 6) Ion exchange.
 - 7) Stomata.
 - 8) IAA.
 - 9) Importance of soil on mulberry growth.
 - 10) Artificial diet.
 - 11) Corpus allatum.
 - 12) Insect muscle.
- III. Answer **any four** of the following : (4×5=20)
- 13) Explain the role of external factors on water absorption in plants.
 - 14) Write an account on bio fertilizers.
 - 15) Explain C4 cycle.
 - 16) Write an account of factors affecting respiration.
 - 17) Give an account of chemoreceptor.
 - 18) Describe the ultra structure of skeletal muscles.

P.T.O.



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

(3x10=30)

- 19) List out the micro and macro nutrients with their physiological role.
 - 20) Explain symbiotic nitrogen fixation in detail.
 - 21) Write an account on non cyclic photophosphorylation.
 - 22) Describe the structure and function of digestive system. Add a note on the process of digestion.
 - 23) Write an account on insect integument.
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