

M.Sc. (CBCS) DEGREE SPECIAL SUPPLEMENTARY EXAMINATION,**APRIL 2020****SECOND SEMESTER****ZOOLOGY****ENTOMOLOGY****(For those who joined in July 2017 onwards)****Time: Three hours****Maximum : 75 marks****Part A – (10X1=10 marks)****Answer ALL the questions, Choose the correct answer**

1. The grasshoppers and crickets are included in the order
a) Orthoptera b) Dermaptera c) Hemiptera d) Phasmida
2. Small soft bodied insects are collected by the method of
a) Hand Picking b) Sweeping c) Aerial Netting d) Trapping
3. The basal segment of antennae is called
a) coxa b) trochanter c) stripe d) scape
4. The mouth parts of butterflies are
a) Cutting and Chewing type b) siphoning type c) piercing and sucking type
d) None of these
5. Example of biological vector is
a) House fly b) grasshopper c) mosquito d) cricket
6. The spotted boll worm is a pest of
a) Rice b) store foods c) cotton d) sugar cane
7. Which one of the following is a mechanical control measure?
a) Burning b) netting c) winnowing d) trapping
8. Granules are pesticide formulations of
a) Liquid b) dry c) aerosols d) gas
9. The crown jewel of the bee hive is
a) Royal jelly b) bee pollen c) bee wax d) propolis
10. Lac is a resinous matter secreted by
a) Female lac insect b) male lac insect c) honey bee d) silkworm

PART B - (5 x 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b). Each answer should not exceed 250 words.

11. a) State the principles of insect classification

or

b) Explain the beating and sweeping method of insects collection

12. a) Comment on the types of antennae in insects

or

b) Explain the functions of malpighian tubules

13. a) Evaluate the biology and control measure of Rhinoceros beetle

or

b) Write an account on pest of stored products

14. a) Briefly present the physical control measure of insect pests

or

b) Discuss the laws and regulation pertaining to usage of pesticide

15. a) Write an account on medicinal uses of insects

or

b) Write short notes on Forensic Entomology

PART C - (5 x 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b). Each answer should not exceed 600 words.

16. a) Classify insects up to orders with examples.

(08)

b) Explain the dry methods of insect's preservation

17. a) With sketch describe the piercing and sucking type of mouth parts in insects

or

b) Comment on the types of respiration in insects

18. a) Write an account on gall insects and add a note on their significance.

or

b) Discuss the problem of mosquitoes and diseases transmitted by them.

19. a) Describe the cultural method of pest control

or

b) Write an account on the use of parasite and predators in pest control

20. a) Discuss the role of insects as pollinators.

or

b) Comment on the secretions of insects. Add a note on their values