

D 40084

(Pages : 2)

Name.....

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH/APRIL 2018

(CUCBCSS—UG)

Zoology

ZOL 6B 15 (E3)—APPLIED ENTOMOLOGY

Time : Three Hours

Maximum : 80 Marks

A. Answer *all* questions. Each carries 1 mark.

- 1 Write down scientific name of sugarcane shoot borer.
- 2 Name core protein in the silk.
- 3 The infestation of living organs or tissues of man and other mammals by maggots of flies is known as _____.
- 4 Methoprene is an analogue of which insect hormone.
- 5 Which species of mosquito is the principal intermediate host of the nematode *Wuchereria bancrofti* ?
- 6 Pyrethrum is obtained from _____.
- 7 Spiracles are associated with _____.
- 8 Write an example for insecticide resistant plant.
- 9 Which species of bees are the smallest one ?
- 10 Which types of mosquito are vectors of malarial disease ?

(10 × 1 = 10 marks)

B. Answer any *ten* questions in two or three sentences each. Each carries 2 marks

- 11 Comment on respiratory organ in insects.
- 12 Write short notes on uses of lac.
- 13 Comments on destructive stages of insect.
- 14 Describe the importance of legal measures in insect pest control.
- 15 Describe damage caused by chewing insects.
- 16 Comment on the control measures of the pests of brinjal.
- 17 What are adjutants used in insecticides ?
- 18 Comment on different types of mouthparts in insects.

Turn over

- 19 Comment on neem based insecticides.
- 20 Comment on arrow poison from insects.
- 21 Write short notes on use of pheromones as insect control agent.
- 22 Describe uses of bee wax.

(10 × 2 = 20 marks)

C. Answer any *five* questions in not more than a paragraph each. Each carries 6 marks.

- 23 Describe different types of communication methods in honey bees.
- 24 Comment on different types of silkworms
- 25 Write notes on life cycle, damage caused by major pests of banana and their control measures.
- 26 Give examples for insect antifeedants and their use insect control
- 27 Describe the rearing of mulberry silkworm.
- 28 Describe fumigation and different types of fumigants.
- 29 Describe the insect pest of tea and their control measures.

(5 × 6 = 30 marks)

D. Write essays on any *two* of the following. Each carries 10 marks.

- 30 Critically evaluate the positives and negatives of pheromonal control of pests
- 31 Classify insect up to orders.
- 32 Write an essay on biological control .Explain method with examples.
- 33 Why are insect growth regulators called third generation insecticides, evaluate their role in insect control programmes ?
- 34 Describe in detail various defensive mechanisms in insects against chemical pesticides..

(2 × 10 = 20 marks)