

(6 pages)

Reg. No. :

Code No. : 6810

Sub. Code : KZOE 22

M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2017.

Second Semester

Zoology

Elective — ENTOMOLOGY

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Chewing and cuffing type mouth parts are found in
(a) Cotton leaf roller (b) Cottonjassid
(c) Mustard aphid (d) Army worm
2. Which of the following is NOT associated with the rate of pesticide breakdown following application?
(a) pH (b) moisture
(c) microorganisms (d) sunlight

3. Pesticide movement in water that is carried downward from the surface and into the soil is called:
(a) Runoff (b) Leaching
(c) Absorption (d) None of the above
4. Most effective pesticide is
(a) Carbamates
(b) Organophosphates
(c) Organochlorines
(d) All of these
5. IPM stands for
(a) Integrated pest manufacture
(b) Integrated plant management
(c) Integrated pest management
(d) None of the above
6. Pests may not be destroyed through
(a) Parasites (b) Insecticides
(c) Herbicides (d) Pesticides

Page 2

Code No. : 6810



7. Substances which can remain in soil for many years are
- (a) Microorganisms
 - (b) Insecticides
 - (c) Dichloro-triphenyldichloroethane
 - (d) Dichloro-diphenyl trichloroethane
8. In trophic level, of a food chain, the insecticide amount
- (a) decreases at each trophic level
 - (b) increases at each trophic level
 - (c) remains unchanged
 - (d) may increase or decrease depending on consumption
9. Which of the following two classes of pesticide are least persistent in the environment ie., which breaks down quickly?
- (a) Chlorinated hydrocarbons
 - (b) Carbamates
 - (c) Chlorofluorocarbons
 - (d) All of the above

Page 3

Code No. : 6810

10. Which of the following is not an introduced insect pest in the United States?
- (a) planting trap crops
 - (b) intercropping
 - (c) introducing predators or parasites
 - (d) sterile-male technique

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Briefly explain about the classification of orthoptera with example.

Or

- (b) Explain mouth parts of mosquito.

12. (a) Write a note on any two pests of paddy.

Or

- (b) Write a note on any two pests of coconut.

13. (a) Write a short notes on biological control measures.

Or

- (b) Explain about EIL.

Page 4

Code No. : 6810

[P.T.O.]



14. (a) What are recent trends in controlling pests?

Or

- (b) Write a role of pheromones of insects.

15. (a) Write are the types of silkworm and its culture.

Or

- (b) Draw neat sketch of silk gland and explain.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) What is marching? What are the physical changes seen in the insects?

Or

- (b) Write role of queen bee.

17. (a) Briefly explain about the life cycle of lepidoptera with diagram.

Or

- (b) Write a short on pest of pulses.

18. (a) Briefly explain about Lac culture.

Or

- (b) What are natural enemies for Lac culture?

19. (a) Give an account of insect vectors.

Or

- (b) What are the components of IPM?

20. (a) What are the limitations and advantage of mechanical control?

Or

- (b) Give an account of beneficial insects.

