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Reg. No. :

Code No. : 7154

Sub. Code : PZOM 24

M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2018.

Second Semester

Zoology

ENTOMOLOGY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The mouth part of house fly are of

- (a) Piercing and sucking type
- (b) Biting and Chewing type
- (c) Sucking and sponging type
- (d) Biting, Sucking and lapping type

2. The characteristic features of apterygote insect is

- (a) Primary wingless
- (b) Small paired styli
- (c) Ametapalous
- (d) All the above

3. In blood sucking insect like mosquitoes the saliva has the following enzyme

- (a) Amylase
- (b) Trypsin
- (c) Mattase
- (d) No enzyme

4. Which hormone would not be found in adult insect

- (a) PTTH
- (b) Juvenile
- (c) Eclosion
- (d) All of these

5. IPM standard for

- (a) Integrated pest manufacture
- (b) Integrated plant
- (c) Integrated pest management
- (d) None of the above

6. The disease transmitted by sand flies is

- (a) Malaria
- (b) Filaria
- (c) Kala-azar
- (d) Sleeping sickness

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7. Identify the physical control measure from the following
- (a) Cold storage (b) Ionizing radiation
(c) Trenching (d) Both (a) and (b)
8. In insect neck is distinct which is mainly derived from the
- (a) Last part of head
(b) Head and thorax
(c) First part of thorax
(d) Clear segment of thorax
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
10. Identify the muga silkworm from the following
- (a) *Antheraea assama* (b) *Phitosamia ricini*
(c) *Bombyx mori* (d) *Antheraea mylitta*

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) Outline the process of respiration in aquatic insects.

Or

- (b) Explain the reproductive system of a female insect.

13. (a) Write notes on the types of pests.

Or

- (b) Name any two pests of paddy and explain the damage caused by them.

14. (a) Give an account on medicinal use of insects.

Or

- (b) Write a note on apiculture.



15. (a) Briefly explain types of silkworm.

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) Describe the general characteristics of the class insect.

Or

- (b) Write an account on the appliances used in insect collection.

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

Or

- (b) Write a short on pest pulses.

18. (a) Write the principles of insect classification.

Or

- (b) Explain insect collection and preservation.

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19. (a) Write short note on chemical methods to control pests.

Or

- (b) Classify pesticides based on their mode of action.

20. (a) Give short note on structure of bee colony.

Or

- (b) How insects use in forensic entomology?
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