

(6 pages)

Reg. No. :

Code No. : 6907

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M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2021.

Second Semester

Zoology — Core

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 ejaculatory duct is ectodermal in origin, and therefore
 - (a) Cuticle-lined
 - (b) Green gland
 - (c) Royal Jelly
 - (d) Ectadenia

2. The visual pigments occur mainly in these _____.
 - (a) Compound eye
 - (b) Rhabdomeric
 - (c) Pigment cells
 - (d) Crystalline cone

3. Dorsal ocelli occur in larvae of hemimetabolous insects and in nearly all _____.
- (a) Larva (b) Adults
(c) Pupa (d) Plexus
4. The ocelli are present in most insects to some
- (a) time (b) degree
(c) days (d) species
5. _____ are used not only for feeding but also for attack and defence
- (a) Galea (b) Stipes
(c) Mandibles (d) Pharynx
6. The process of moulting is called
- (a) Pupa (b) Demoulting
(c) Instar (d) Ecdysis
7. Linnaeus was influenced a lot by the earlier writings of the English Naturalist _____.
- (a) Milton (b) Linnaeus
(c) John Ray (d) Hexapods

8. ICAR
- (a) Indian Cultural Applied Race
 - (b) Indian Council of Agricultural Research
 - (c) Initial Corp And Roll
 - (d) Inside Care Age Reap
9. Insects are the only invertebrates which passes _____.
- (a) Legs
 - (b) Wings
 - (c) Eye
 - (d) Royal Jelly
10. Mecoptera are known as
- (a) Sinulata
 - (b) Scorpion Flies
 - (c) Mecoptera
 - (d) Eoxenos

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) With an example explain the importance of the taxonomic keys in the identification of Insects.

Or

- (b) Explain cutting and chewing type of mouthparts in insects.

12. (a) Explain the neuroendocrine system of an Insects.

Or

(b) Describe the Jhonston's organ.

13. (a) Explain the structure of circulatory system of Insects.

Or

(b) Discuss the problem of Insects associated with human beings.

14. (a) Write the effectiveness of Inorganic compounds as Pesticides.

Or

(b) List the transmission of disease of mosquitoes.

15. (a) Explain mechanism of pollination in Insects.

Or

(b) Write medicinal uses of Insects.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) List out the biological methods of pest control.

Or

- (b) Discuss the vectors of Lice.

17. (a) Explain Eri Silkworm and applications.

Or

- (b) Describe the mode of infection on Cotton Crops.

18. (a) Write the biology and mode of transmission of diseases and control of Sandfly and Housefly.

Or

- (b) Discuss about recent trends in pest control – Chemosterilants.

19. (a) Explain compound eye in Insects.

Or

- (b) Write about Forensic Entomology.

20. (a) Describe the value of Insects as protein sources of human and animal feeds.

Or

(b) Write about control measures of Insect pest management.
