



QP CODE: 26019288



26019288

Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026
Fourth Semester
M Sc ZOOLOGY
ELECTIVE - ZL820402 - ANATOMY AND PHYSIOLOGY

2019 Admission Onwards

15E31222

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What is the significance of ecdysal lines in moulting process?
2. What is the speciality of larva of wax moth *Galleria* in terms of diet?
3. The haemocoel of insects is divided into three major sinuses. Explain.
4. What are airsacs?
5. What is T system?
6. Mention the use of metabolism.
7. What is a ganglion?
8. What is the role of luciferin in light production?
9. What are prothoracic gland in insects?
10. What are kairomones?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Comment on the three primary layers of insect integument.
12. Describe the anatomy and histology of hindgut of insects.
13. Give an account on the course of circulation in insects.
14. Explain the mechanisms by which insect eggs facilitate gas exchange.





15. Explain the process of excitation of muscle fibre.
16. Explain the anatomy of Malpighian tubules.
17. Describe gustatory and olfactory sensory reception in insects.
18. Examine the different types of viviparity with suitable examples.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Explain the composition and functions of haemolymph.
20. Elaborate the intermediary metabolism in insects.
21. Explain the mechanisms involved in the sound production in insects.
22. Explain the process of spermatogenesis and its control.

(2×5=10 weightage)

