Fourth Semester B.Sc. Degree Examination, April/May 2019

(CBCS Scheme)

Zoology

Paper IV — INSECT VECTORS AND DISEASES

Time : 3 Hours]   *[Max. Marks : 90*

Instructions to Candidates : Draw labelled diagrams wherever necessary.

PART – A

I. Answer any **TEN** of the following :   **(10 × 2 = 20)**

1. Name the types of mouth parts present in mosquito and butterfly.

2. Sketch and label the simple eye of insect.

3. What are carriers? Give an example.

4. Mention the four distinctive characters of order siphonapteria.

5. List out any four examples of order siphunculata.

6. Justify dipterans as the insect vectors.

7. Name the causative agent of Malaria and Leishmaniasis.

8. Write the control methods of mosquito.

9. Mention the symptoms of chikungunya.

10. Name any two louse-borne diseases.

11. List the symptoms of Chagas disease.

12. Write the control measures of bed bugs.

PART – B

II. Answer any **SIX** of the following. (6 × 5 = 30)

13. With a neat labelled diagram, explain the trophi of honey bee.

14. Write notes on Reservoirs. Mention the types.

15. Name the occurrence, disease caused, causative agent and preventive measures of any one Dipteran.

16. Give an account of Filariasis and its control measures.

17. List the preventive and controlling measures of phlebotomous fever.

18. Describe the host-specificity of fleas.

19. Name the vector, causative agent and symptoms of Vagabond's disease.

20. Briefly explain Bed bugs as mechanical vectors.

PART – C

III. Answer any **FOUR** of the following : (4 × 10 = 40)

21. Describe the structure of the mouthparts of cockroach with a neat labelled diagram.

22. Explain the adaptations of vectors.

23. Explain the general characters of insecta. Mention any five orders under endopterygota with examples.

24. Describe the sexual life cycle of plasmodium vivax in mosquito.

25. Explain :
    (a) Dengue
    (b) Visceral Leishmaniasis

26. Write a note on :
    (a) Phthiriasis
    (b) Control of human louse