B.Sc. 5th Semester (Hons.) Examination, 2020 (CBCS)
Subject: Zoology
Paper: DSE-2

(DSE-T3: Parasitology)

Full Marks: 40   **Time: 2 Hrs**

Candidates are required to give the answers in their own words as far as practicable.

*Answer any **eight** questions of the following:* $5 \times 8 = 40$

1. Represent the life cycle of *Leishmania donovani* carried out in human.

2. Make a comment on the microfilarial periodicity of *Wuchereria bancrofti*.

3. Establish the role of mosquito as a potent biological vector.

4. Focus on the nematode plant interactionsciting a well-known example.

5. Schematically represent the sequential events of life cycle in *Taenia sajinata.*

6. How does a soft tick differ from a hard tick biologically?

7. Draw and represent the dorsal view of feeding stage of an intestinal flagellate.

8. With a suitable flowchart elaborate the phase of larval migration in the life history of *Ascaris lumbricoides.*

9. Discuss the role of vampire bat as a potent parasitic vertebrate.

10. Explain the biological importance of mites with a note on its control.

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(DSE-T4: Biology of Insects)

Full Marks: 40   **Time: 2 Hrs**

Candidates are required to give the answers in their own words as far as practicable.

*Answer any **eight** questions of the following:* $5 \times 8 = 40$

1. Write the characters of order Hemiptera and Diptera with example.

2. Differentiate between complete and incomplete metamorphosis with hormones that control molting and metamorphosis.

3. Write the name and function of mouth parts of insects.

4. Describe different casts of termite.

5. Briefly describe the role of mosquito as vector.

6. What do you mean by allochemicals and describe how allochemicals affect insect behavior?

7. Briefly describe the structure of photoreceptor in an insect.

8. Describe with example how insect legs have adapted for digging and clinging.

9. With example write different types of insect wings.

10. Write the role of insect as mechanical and biological vector.

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