U.G. 6th Semester Examination - 2023

ZOOLOGY

[HONOURS]

Discipline Specific Elective (DSE)

Course Code : ZOOL-H-DSE-T-04

Full Marks : 40 Time : $2\frac{1}{2}$ Hours

The figures in the right-hand margin indicate marks.

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

1. Answer any **five** questions: 2×5=10

a) Explain the concept of hyperparasite and give an instance as an example.

b) What is visceral leishmaniasis and why it is so called?

c) Define ancylostomiasis and enumerate the symptoms.

d) What are promastigote and amastigote forms of *Leishmania*?

e) Which parasite is responsible for causing cercarial dermatitis? Can you name two intermediate hosts of this parasite?

f) How does sex reversal occur in crabs parasitized by *Sacculina*?

g) Define lymphatic filariasis and enumerate its symptoms.

2. Answer any **two** of the following questions: 5×2=10

a) Distinguish between mechanical and biological vectors. Draw and describe a microfilaria of *Wuchereria bancrofti.* 2+3=5

b) Give a short note on host specificity and immunological interaction between host and parasite. 2½+2½=5

c) Distinguish between male and female *Ascaris.* Comment on the epidemiology, pathogenicity and treatment of ascariasis. 2+1+1=1=5

d) What is the scientific name of Tsetse fly? Describe life cycle of *Trypanosoma gambiense*? 1+4=5

3. Answer any **two** of the following questions: 10×2=20

a) Differentiate between soft ticks and hard ticks. Illustrate the life cycle of ticks using appropriate diagrams. Discuss the diseases caused by hard ticks along with control measures. 2+3+3+2=10

b) Name scientific name of two species of human lice. Describe role of lice in disease transmission in human. Comment on the diagnosis, pathogenicity and control of *Leishmania donovani.* 2+2+2+2+2=10

c) What is zoonosis? Classify zoonosis based on etiological agents and transmission cycle. Why is it important to study zoonotic diseases? 2+3+3+2=10

d) Define scabies and identify the causative organism. Describe role of mites in disease transmission in animals. Describe life cycle and pathogenicity of *Wuchereria bancrofti.* 2+2+4+2=10
