

U.G. 6th Semester Examination - 2022

ZOOLOGY

[HONOURS]

Discipline Specific Elective (DSE)

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

Full Marks : 40

Time : 2½ 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) What is Schistosomiasis?
 - b) What is parasitoid? Cite one example.
 - c) What is elephantiasis? What is the causative organism?
 - d) Distinguish between male and female *Ascaris*.
 - e) Name scientific names of two intermediate hosts of *Schistosoma*.
 - f) What is Loeffler's syndrome?
 - g) Name three species of human lice.

2. Answer any **two** of the following questions:

5×2=10

- a) Name two species of vampire bats act as vectors of diseases in mammals. How and what diseases are transmitted by ticks? 2+3=5
- b) What is nocturnal periodicity of *Wuchereria bancrofti*? Describe structure of microfilaria larva of *W. bancrofti*. 2+3=5
- c) Describe the diseases transmitted by mites and their prevention and control measures. Describe epidemiology of *Trypanosoma gambiense*. 3+2=5
- d) What is Leishmaniasis? What are the various types? Comment on the epidemiology and control of this disease.

3. Answer any **two** of the following questions:

10×2=20

- a) What is vector? Name two vectors and diseases transmitted by the concerned vectors. Describe migration of *Ascaris* larva in human with diagrams. What is the pathogenicity of *Ascaris lumbricoides*? 2+1+5+2=10

b) What are the various morphological forms of *Trypanosoma gambiense*? Describe life cycle of *Trypanosoma gambiense* with diagrams. Comment on its pathogenicity and control.

$$2+4+2+2=10$$

c) Comment on effects of parasites on hosts. Comment on epidemiology, pathogenicity and control of *Schistosoma haematobium*.

$$4+2+2+2=10$$

d) Distinguish between soft ticks and hard ticks. Draw a diagram of *Xenopsyllacheopsis* and comment on its role of disease transmission and control.

$$2+3+3+2=10$$
