U.G. 6th Semester Examination - 2021

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 of the following: 2×5=10

   a) Define Parasitism. What is Phoresis?

   b) What are G-cells? Write their function.

   c) Differentiate between hard ticks and soft ticks.

   d) What is Loeffler's syndrome? Write its symptoms.

   e) Name the causative agent of Bilharziasis disease. Write its symptoms.

   f) What is sleeping sickness? Name its transmitting agent.

   g) Describe the morphology of copulatory bursa.

   h) Name the disease transmitted by Flea. Write the name of the causative agent.

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

   a) Differentiate between parasite and parasitoid. Write down the stages of host parasite interaction. 2+3

   b) Describe the geographic distribution of the 'Old World hookworm'. Write down the pathogenic effects caused by Ancylostome larvae. 1+4

   c) Describe the stages of development of microfileria of *Wuchereria bancrofti* in the mosquito body. 5

   d) Describe the prevention and control measures of *Pediculus* sp and *Xenopsylla* sp. $2\frac{1}{2}+2\frac{1}{2}$

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

   a) What is Leishmaniasis? Describe its different types. Write the name of Kala-azar causing protist and describe its life cycle with suitable diagram. 1+2+1+6

   b) Name the definitive and intermediate host of *Schistosoma haematobium*. Draw and describe the morphology of its infective form. Describe its path of migration inside host body. 2+4+4

   c) Describe the morphological differences between male and female *Ascaris lumbricoides*. Describe its mode of infection. What are the diagnosis processes and prophylaxis measures. $4+3+1\frac{1}{2}+1\frac{1}{2}$

d) Write notes on (any **four**): $2\frac{1}{2} \times 4 = 10$

i) Vectors

ii) Elephantiasis

iii) Rhabditiform larva

iv) Trypomastigotes

v) Mites

vi) Vampire bat

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