

B.Sc. 4th Semester (Honours) Examination, 2021

Subject: ZOOLOGY

Course ID: 42614

Course Code: SH/ZOO/404/GE-4

Course Title: Insect Vectors and Diseases

Full Marks: 25

Time: 1 Hr 15 Min

The figure in the margin indicates full marks.

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

1. Answer any five questions of the following:

1×5=5

- What is "Pathogen"?
- Mention the difference between "Pest and Parasite".
- Give the scientific name of Sand fly and House fly.
- Define malignant tertian malaria.
- Give an example of "hypo- parasite".
- Mention scientific name of one nematode in biological control of mosquito.
- What is a parasitoid fly?
- What is hyperparasitism?

2. Answer any two questions of the following:

5×2=10

- Define "Monogenetic & Digenetic" parasite. Describe the life cycle of *Leishmania donovani* with suitable diagram. (½ + ½+4=5)
- Define "Pterygota & Apterygota". Mention the general features of order Hemiptera or Siphunculata. (1+1+3=5)
- What is a "mechanical and biological" vector? Describe the erythrocytic cycle of a malarial parasite. (2+3)
- Write medical importance of houseflies. Mention controlling measure of dengue vector. (2+3)

3. Answer any one question of the following:

10×1=10

- Write down the scientific names of three different types of louse (head, body & pubic). Write down the characteristic features of head louse and body louse. Mention the important control measures of lice. 3+(2+2)+3=10
- Write short notes on (any two): (5×2=10)
 - Flea associated zoonotic diseases.
 - Sand fly(Morphology and diseases)
 - Chikungunya
