448/Zool

B.Sc. Semester-IV Examination, 2022-23
ZOOLOGY [Honours]

Course ID : 42614   Course Code : SH/ZOO/404/GE-4

Course Title : Insect Vectors and Diseases

Time : 1 Hour 15 Minutes   Full Marks : 25

The figures in the right-hand margin indicate marks.

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

UNIT–I

1. Answer any **five** of the following questions:

   $1 \times 5 = 5$

   a) Give the scientific name of sand fly.

   b) What is pathogen?

   c) Distinguish between fly and flea.

   d) Why is kala-azar called black fever?

   e) Which stage of *Wuchereria* may infect human being?

   f) Define malignant tertian malaria.

   g) What are the symptoms of filariasis?

   h) Define Ookinete.

[Turn Over]

UNIT–II

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

$5 \times 2 = 10$

a) What is a "mechanical and biological" vector? Describe the erythrocytic cycle of a malarial parasite.

$2+3$

b) Write down the symptoms and prophylaxis of typhoid fever.

$2\frac{1}{2}+2\frac{1}{2}$

c) Define "Pterygota & Apterygota". Mention the general features of order Hemiptera or Sipunculata.

$1+1+3$

d) Distinguish between *Anopheles* and *Culex* mosquito with suitable diagram.

$3+2$

UNIT–III

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

$10 \times 1 = 10$

a) Define "Monogenetic & Digenetic" parasite with suitable example. Describe the amastigote and promastigote cycle of *Leishmania donovani* with suitable diagram.

$2+2+6$

b) Describe any one type of mouth parts of insect with respect to feeding habit with proper labelled diagram and examples. Mention the general characters of class Insecta. State the functions of antennae.

$5+3+2$

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B.Sc. Semester

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Course ID : 42611

Course Title : C

Time : 1 Hour 15

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b) W

c) V

d)

e)

f)

g)

h)