

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

Course ID : 52617 Course Code : SH/ZOO/504/DSE-2

Course Title : Biology of Insecta

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:

1×5=5

- Give two differences between mandibulate and nasute type of soldier in termite.
- Define apolysis.
- Give the scientific name of vector that spreads "Kala azar" disease.
- What do you mean by geniculate antennae?
- What do you mean by prognathus head of Insects?
- Johnstone's organ— which type of receptor is this?
- In which insect "Apodous" larvae are found?
- Name an insect which has Grasping-Sucking mouth parts.

[Turn Over]

UNIT-II2. Answer any **two** of the following questions:

5×2=10

- Describe in brief the different morphological forms and its function found in termite community. 5
- What is Rhabdome? Describe the mechanism of mosaic image formation in Insect. 1+4
- Write short note on any **one**: 5
 - Role of Insect in human welfare
 - Integument of Insect
- Describe functions of Raptorial and Fossorial legs. $2\frac{1}{2}+2\frac{1}{2}$

UNIT-III3. Answer any **one** of the following questions:

10×1=10

- Classify insects up to subclass with characters mentioning at least one example from each. Name two wingless insects (scientific name). 6+2+2
- What are social insects? Mention the control measures of Dipteran vector. Mention each one of ectoparasite and endoparasite diptera which spread disease to human being. 2+6+2
