

UNDERGRADUATE SEMESTER-V EXAMINATION, 2021

Subject: ZOOLOGY

Course ID: 52617

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

Course Title: Biology of Insecta

Full Marks: 25

Time: 1 Hr 15 Min

The figures in the margin indicate full marks

UNIT I

1. Answer any five of the following questions:

1 x 5=5

- a) Give two differences between mandibulate and nasute type of soldier in termite.
- b) Name the types muscle which are attached with insect legs.
- c) Define apolysis.
- d) What do you mean by stadium in insect metamorphosis?
- e) Give the scientific name of vector who spreads “Kala azar” disease.
- f) What do you mean by geniculate antennae?
- g) What do you mean by sponging type mouth parts?
- h) Define Tentorium.

UNIT II

2. Answer any two of the following questions:

5 x 2=10

- a) Describe structural modification and feeding mechanism of chewing mouth parts of insect. 2+3=5
- b) Describe in brief the different morphological forms and its function found in termite community. 5

Signature of Moderators _____

Date _____

c) **What is Rhabdome. Describe the mechanism of apposition or mosaic image formation in Insect.** **1+4=5**

d) **Write short note on any one.** **5**

1) **Role of Insect in human welfare**

2) **Trophallaxis in ants**

UNIT III

3. *Answer any one of the following questions:* **10 x I=10**

a) **What do you mean by “critical period “in insect metamorphosis? State the name and sources of hormones in insect metamorphosis. Schematically represent the hormonal regulation of insect metamorphosis.** **2+2+6=10**

b) **What do you mean by ungues? Discuss briefly with diagram about modification of insect legs.** **2+8=10**

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Signature of Moderators _____

Date _____