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RNLKWC/B.Sc./CBCS/VIS/H/DSE4T/22

2022

ZOOLOGY

[HONOURS]

(B.Sc. Sixth Semester End Examination-2022)

PAPER-DSE4T

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

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

Illustrate the answers wherever necessary

Group A

1. Answer any FIVE questions of the following: **5x2= 10**
- Mention two important characters of order Lepidoptera.
 - Name one neuro enzyme in insect
 - Name one insect pest of paddy with scientific name.
 - Name the insect where sponging type of mouth parts is found.
 - What is trophallaxis? Give one example
 - What do you mean by phytophagous insect? Give example.
 - Write one important modification in the hind leg of grass hopper.
 - Mention the chemical nature of chitin.

(2)

Group B

2. Answer any **FOUR** questions of the following: **4x5 = 20**
- a) Mention four important external features of insect.
 - b) Write down two identifying characters of order Hymenoptera and Diptera with two examples each.
 - c) State the difference between aristate and bipectinate antennae with examples.
 - d) What is acrolium? State its function.
 - e) What is terminal arboriation?
 - f) Write a note on Pericardial sinus.

Group C

3. Answer any **ONE** questions of the following: **1x10 = 10**
- a) Write down the neuroendocrine control of metamorphosis in insect.
 - b) Write down the composition of haemolymph. Add a note on process of blood circulation. **5+5**
