WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 5th Semester Examination, 2021-22

ZOOADSE02T-ZOOLOGY (DSE1/2)

Time Allotted: 2 Hours   Full Marks: 40

The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.

1.   Answer any *eight* questions from the following: 2×8 = 16

   (a) What do you mean by an apposition eye? Give example.

   (b) What is Peritrophic membrane? Where is it found?

   (c) Compare between pheromones and synomones.

   (d) Name mouthparts of Cockroach.

   (e) What is accessory pulsatile vesicle?

   (f) What is corpora allata?

   (g) Define ametabolic metamorphosis.

   (h) Write four distinctive features of order Orthoptera.

   (i) What is arthrodial membrane?

   (j) Name two hormones that govern insect metamorphosis.

   (k) Name two diseases that are transmitted by *Musca domestica*.

   (l) What are the functions of hepatic caeca?

2.   Answer any *three* questions from the following: 3×3 = 9

   (a) Distinguish between mechanical and biological vectors.

   (b) Describe Siphoning types of mouthparts.

   (c) Define with example of Clavate and Aristate antennae.

   (d) Describe the mechanism of image formation through a superposition eye of an insect.

   (e) Mention the order of Silver fish, Lady Bird Beetle, Red Cotton Bug, Mayfly, Dragonfly and Housefly.

3. Answer any *three* questions from the following: 5×3 = 15

   (a) Write the scientific name of Paddy stem borer. Mention the damage caused by it. Mention its control measure. 1+2+2

   (b) Describe the types of wings found in insects.

   (c) Mention three characters and one example each of order Collembola and Dermaptera.

   (d) Briefly discuss on Housefly as a mechanical vector.

   (e) Draw and describe the nervous system of insect.

   N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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