



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
- What do you mean by an apposition eye? Give example.
 - What is Peritrophic membrane? Where is it found?
 - Compare between pheromones and synomones.
 - Name mouthparts of Cockroach.
 - What is accessory pulsatile vesicle?
 - What is corpora allata?
 - Define ametabolic metamorphosis.
 - Write four distinctive features of order Orthoptera.
 - What is arthroial membrane?
 - Name two hormones that govern insect metamorphosis.
 - Name two diseases that are transmitted by *Musca domestica*.
 - What are the functions of hepatic caeca?
2. Answer any **three** questions from the following: 3×3 = 9
- Distinguish between mechanical and biological vectors.
 - Describe Siphoning types of mouthparts.
 - Define with example of Clavate and Aristate antennae.
 - Describe the mechanism of image formation through a superposition eye of an insect.
 - 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. 1+2+2
Mention its control measure.
- (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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