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PG CBCS
M.Sc. Semester-III Examination-2019
 Paper Code: ZOO-395
 Practical Paper

Full Marks: 50

Time: 6 Hours

(Based on Entomology, Ecotoxicology, Molecular Evolution and Microbiology)

The figures in the margin indicate full marks.

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

Illustrate the answers whenever necessary.

- 1) a) Mount the sting apparatus of Honey bee. 5
 b) Identify the following specimen and comment on its entomological importance –A, B.
 Identification 1+1, Importance 1.5+1.5 5
- 2) Calculate the LC₅₀ Value from the supplied data at 10 hr and 20 hr
 Specimen: *Aedes aegypti*
 Insecticide: DDT
- | Concentration
(mg/L) | <u>Percent Mortality</u> | | 15 |
|-------------------------|--------------------------|--------------|----|
| | <u>10 hr</u> | <u>20 hr</u> | |
| 10 | 9 | 15 | |
| 20 | 18 | 31 | |
| 30 | 41 | 62 | |
| 40 | 83 | 91 | |
| 50 | 89 | 100 | |
- 3) Enumerate the coliform bacterial load in the supplied water sample (c) through multiple tube fermentation method. 15
 Principle- 3, Procedure – 4
 Result – 6, Comment – 2
- 4) Laboratory note book. 5
 5) Viva – voce. 5

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- 1) a) Mount the sting apparatus of Honey bee. 5
- b) Identify the following specimen and comment on its entomological importance –A, B.
 Identification 1+1, Importance 1.5+1.5 5
- 2) Calculate the LC50 Value from the supplied data at 10 hr and 20 hr
 Specimen: *Aedes aegypti*
 Insecticide: DDT
- | Concentration
(mg/L) | <u>Percent Mortality</u> | | 15 |
|-------------------------|--------------------------|--------------|----|
| | <u>10 hr</u> | <u>20 hr</u> | |
| 10 | 9 | 15 | |
| 20 | 18 | 31 | |
| 30 | 41 | 62 | |
| 40 | 83 | 91 | |
| 50 | 89 | 100 | |
- 3) Enumerate the coliform bacterial load in the supplied water sample (c) through multiple tube fermentation method. 15
- Principle- 3, Procedure – 4
 Result – 6, Comment – 2
- 4) Laboratory note book. 5
- 5) Viva – voce. 5
