

Reg. no.:

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| **ST. JOSEPH’S UNIVERSITY, BANGALORE-27** |  |
| **M.Sc. ZOOLOGY - III SEMESTER** |  |
| **END SEMESTER EXAMINATION: DECEMBER 2023** |  |
| **ZO 9523 – ECONOMIC ZOOLOGY**  |  |
|  |  |  |  |  |  |  |  |
| **Time - 2 hrs** |   |  **Max Marks - 50** |  |  |
|  |  |  |  |  |  |  |  |
| **This paper contains 2 printed pages and four parts** |  |

**Note: Draw neat labelled diagrams wherever necessary**

**(For current batch students only)**

**PART A**

**Answer the following: 5 X 1 = 5**

1. Common method for propagation of *Moris alba* is through -----------
2. Host plants of Eri silk moth is -------------------------
3. Number of frames in newton’s bee hive is ----------------------------
4. How many days are required for the fry to grow up to fingerling size?
5. In cage aquaculture, Floating type of cages are used if the water bodies are deeper than -------------------

**PART B**

**Answer the following: 5 X 2 = 10**

1. Name any two poultry breeds raised for egg production
2. List any two silkworm diseases and its management
3. Dipteran pollinators are advantageous over bee pollinators. Substantiate the statement with two reasons
4. Name the different types of fishes used for culture.
5. Differentiate between epigenic and endogenic species of earthworm.

**PART C**

**Answer any THREE of the following: 3 X 5 = 15**

1. List down different diseases of poultry and their management
2. Explain the Host range and rearing protocols for ladybird beetle
3. Write a note on the different diseases and pests of earthworms.
4. Write a note on the modern techniques of fish seed production.
5. Different species of fish can be cultured together – substantiate the statement with a suitable example.

**PART D**

**Answer any TWO of the following: 2 X 10 = 20**

1. In 21st century insects are valuable source of food/energy. Give examples with production technology for edible protein and biodiesel from insects.
2. Describe the different housing system for cattle along with its advantages and disadvantages.
3. Give an account on the methodology and scope involved in vermicomposting technique.

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