

M.Sc. ZOOLOGY
FOURTH SEMESTER
ECONOMIC ZOOLOGY
MSZ-406 MDC

(Use Separate Answer Scripts for Objective & Descriptive)

Duration : 3 hrs.

Full Marks : 70

(PART-A: Objective)

Time : 20 min.

Marks : 20

Choose the correct answer from the following:

$1 \times 20 = 20$

1. For soil pH ranging between 6.5- 7.5 the application of lime in the pond should be at the rate of
 - a. 1000 kg/ha
 - b. 700 kg/ha
 - c. 800 kg/ha
 - d. 200 kg/ha
2. In composite fish culture a feeding rate of
 - a. 2-3% of body weight of fish is generally recommended
 - b. 5% of body weight of fish is generally recommended
 - c. 9% of body weight of fish is generally recommended
 - d. 10% of body weight of fish is generally recommended
3. The droppings of chicks that would fertilise fish ponds are rich in
 - a. Nitrogen and phosphorus
 - b. Sulphur
 - c. Silicate
 - d. Ammonium
4. *Macrobrachium rosenbergii* also known as
 - a. The giant freshwater prawn
 - b. The giant marine water prawn
 - c. The giant brackish water prawn
 - d. None of the above
5. Most commonly used breed for IFS in the duck -cum fish farming in India are
 - a. Indian eagle
 - b. Indian runners
 - c. Indian rippler
 - d. None of the above
6. Rice grasshopper, *Hieroglyphus banian* lays eggs on
 - a. Stem
 - b. Seed
 - c. Leaf
 - d. Soil
7. . Destructive stage of teak defoliator, *Hyblaea puera* is
 - a. Egg
 - b. Pupa
 - c. Larva
 - d. Adult
8. Sal heartwood borer, *Hoplocerambyx spinicornis* feeds on
 - a. Leaf
 - b. Root
 - c. Fruit
 - d. Stem
9. Pesticides enter in animal's body are accumulated in
 - a. Liver
 - b. Lung
 - c. Fatty tissue
 - d. Stomach

[2]

PART-B : Descriptive

Time : 2 hrs. 40 min.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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| 1. What is Composite fish culture? Outline some of the objectives in composite fish culture and highlight some important aspects of composite fish culture in India | 1+2+7
=10 |
| 2. What is integrated fish farming? Mention some of the different types of Integrated fish farming practiced in India, | 2+8=10 |
| 3. Describe the induced breeding technique in fishes with suitable examples. | 10 |
| 4. Define Pest. Write the classification of insect pest of agriculture. | 2+8=10 |
| 5. Describe the life cycle and damage done by any one of tea pest. | 7+3=10 |
| 6. Mention different types of silkworm reared in India. What are the host plants of Eri silkworm? Explain life cycle of Eri silkworm. | 2+2+6
=10 |
| 7. What are the castes present in a honeybee society? How they differ morphologically? Briefly explain different bee products. | 1+3+6
=10 |
| 8. Mention the various forms and types of parasites with few major examples and their brief life cycles. | 10 |

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