

M.Sc. ZOOLOGY
FOURTH SEMESTER (SPECIAL REPEAT)
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:

1X20=20

- When was the Central Bee Research Training Institute formed?
a. 1970
b. 1968
c. 1966
d. 1962
- Which among these species is known as Little Bee?
a. *Apis florea*
b. *Apis indica*
c. *Apis dorsata*
d. *Apis mellifica*
- Which form of sugar constitutes the major portion of honey?
a. Labiolose
b. Maltose
c. Sucrose
d. Xylose
- The Giant silkworm is also known as
a. *Attacus reclinii*
b. *Attacus roylei*
c. *Attacus atlas*
d. *Attacus paphia*
- Lac insects are
a. Viviparous
b. Oviparous
c. Ovoviviparous
d. None of the above
- The scientific name of Common carp is
a. *Hypothalmichthys molitrix*
b. *Cyprinus carpio*
c. *C.elegans*
d. *Chitala chitala*
- The tissue responsible for producing pearl nacre is
a. The mantle with its outer epithelial cells
b. Inner epithelium
c. The hard shell
d. All of the above
- Freshwater pearls form in various species of freshwater mussels of family
a. Unionidae
b. Pteridae
c. Lamillidae
d. Percidae
- In India the first successful attempt In Induced Breeding was made by
a. V.N Pathak in 1953
b. Natarajan in 1955
c. K.H Alhikuni in 1945
d. Hiralal Choudhury in 1955
- Defoliators feed on
a. Root
b. Fruits
c. Bark
d. Leaf

11. Rice grasshoppers lay eggs on
 - a. Stem
 - b. Leaf
 - c. Soil
 - d. Seeds
12. Bamboo leaves can be controlled by
 - a. Using pesticides
 - b. Taking care of bamboo nursery
 - c. Harvesting bamboo before time
 - d. Drop down cut bamboo into water bodies
13. Bunch caterpillar, *Andraca bipuncatata* is a pest of
 - a. Tea
 - b. Paddy
 - c. Stored grain
 - d. Forest
14. Parasite which infect a host where they cannot develop further are known as
 - a. Aberrant parasite
 - b. Obligate parasite
 - c. Facultative parasite
 - d. Accidental parasite
15. Plasmodium is the example of
 - a. Accidental parasite
 - b. Aberrant parasite
 - c. Obligate parasite
 - d. Facultative parasite
16. Housefly is an example of
 - a. Biological vector
 - b. First biological and next mechanical vector
 - c. First mechanical and next biological vector
 - d. Mechanical vector
17. The insect vector of malaria
 - a. Aedes mosquito
 - b. Anopheles mosquito
 - c. Culex mosquito
 - d. None of the above
18. Dengue virus is transmitted by
 - a. House flies
 - b. Sand flies
 - c. Ticks and mites
 - d. Culex mosquito
19. *Ascaris lumbricoides*, a roundworm infects humans via the
 - a. Fecal-oral route
 - b. Blood transmission
 - c. Through air
 - d. None of the above
20. *Taenia solium* is also called
 - a. Round worm
 - b. Tape worm
 - c. Ring worm
 - d. Pin worm

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(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 apiculture? Briefly describe the characteristics of different honey bees. | 2+8=10 |
| 2. What are the varied products obtained from honey bees? Explain each of them in detail. | 3+7=10 |
| 3. What is ornamental fish? Discuss the prospects of ornamental fish culture and trade in India citing suitable examples. | 2+8=10 |
| 4. Describe the different types of parasites and hosts. | 10 |
| 5. Name two major pests of paddy. Describe the life cycle of any one of them. | 2+8=10 |
| 6. What is integrated fish farming? Discuss some of the integrated Fish Farming Practices in Northeast India citing suitable examples. | 2+8=10 |
| 7. Describe the life cycle of <i>Anopheles</i> mosquito. | 10 |
| 8. Write briefly the hazardous effects of pesticides. | 10 |

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