

**SECOND SEMESTER B.Sc. DEGREE [SUPPLEMENTARY/IMPROVEMENT]
EXAMINATION, APRIL/MAY 2015**

(UG—CCSS)

Complementary Course—Zoology

ZO 2C 03—ECONOMIC ZOOLOGY

(2013 Admissions)

Time : Three Hours

Maximum : 30 Weightage

I. Answer all *twelve* questions :—

A. Choose the correct answer :

1 The intermediate host of *Taenia solium* is

- | | |
|---------------|----------|
| (a) Snail. | (b) Pig. |
| (c) Mosquito. | (d) Man. |

2 *Schistosoma* is a

- | | |
|--------------------------|-------------------|
| (a) Digenetic parasite. | (b) Ectoparasite. |
| (c) Intestinal parasite. | (d) Parasitoid. |

3 Vagabond's disease is caused by :

- | | |
|-------------------------|--------------------|
| (a) <i>Xenopsylla</i> . | (b) <i>Cimex</i> . |
| (c) <i>Pediculus</i> . | (d) <i>Culex</i> . |

4 The pest of stored food grains is :

- | | |
|----------------------------------|------------------------------------|
| (a) <i>Spodoptera mauritia</i> . | (b) <i>Leptocorisa acuta</i> . |
| (c) <i>Sitophilus oryzae</i> . | (d) <i>Batocera rufomaculata</i> . |

B. Name the following :

5 Banana rhizome weevil.

6 Fresh water prawn.

7 Rock honey bee.

8 Pin worm.

C. Fill in the blanks :

9 are the infections naturally transmitted from vertebrate animals to man.

10 is the pheromone substance produced by the queen honey bee that inhibits the development of ovaries in worker bees.

11 _____ is the high grade collagen produced from the gas bladder of fishes.

12 _____ is the pearly substance produced by pearl oyster.

(12 x = 3 weightage)

II. Answer all *nine* questions :-

13 What is parasitoidism ?

14 Differentiate between a monogenetic parasite and digenetic parasite. Give an example for each.

15 What are the symptoms of ancylostomiasis ?

16 What is meant by a sporadic pest ?

17 Give a note on the damages caused by *Aceria guerreronis*.

18 Comment on the economic importance of honey.

19 Give an account of the diseases transmitted by *Xenopsylla*.

20 What are nursery ponds ?

21 What is shagreen ? What is its use ?

(9 x 1 = 9 weightage)

III. Answer any *five* questions :-

22 Explain the procedure of hypophysation followed in pisciculture ? What are its advantages ?

23 What is eyestalk ablation ?

24 Explain the culture techniques adopted in mussel farming.

25 What is biological control ? Explain the steps involved.

26 Explain the life cycle of *Taenia solium*.

27 Explain host-parasite specificity.

28 Explain the steps involved in silk production.

(5 x 2 = 10 weightage)

IV. Answer any *two* questions :-

29 Describe the morphology and life cycle of *Wuchereria bancrofti*. Give an account of pathogenicity and prophylactic measures that can be adopted to prevent its propagation.

30 Write an essay on the causes of pest outbreak.

31 Write an essay on the common culturable species of prawn and types of culture system employed in prawn culture.

(2 x 4 = 8 weightage)