

SECOND SEMESTER **B.Sc. DEGREE (C.C.S.S. PROGRAMME)**
EXAMINATION, MAY 2010

Zoology—Complementary Course

ZO 2C 03-- ECONOMIC ZOOLOGY

Time : Three Hours

Maximum Weightage : 30

Answers may be written in English or Malayalam.

Give illustration wherever necessary.

I. Answer *all twelve* questions. Each question carries $\frac{1}{4}$ weightage

Objective type questions :

1 Insects responsible for transmitting diseases are called :

- | | |
|--------------|--------------------|
| (a) Vectors. | (b) Pests. |
| (c) Drones. | (d) None of these. |

2 Dengue fever is caused by :

- | | |
|----------------|--------------------|
| (a) Virus. | (b) Bacteria. |
| (c) Protozoan. | (d) Helminth worm. |

3 Beneficial insects are those which provide useful products like

- | | |
|------------------------|-----------------------|
| (a) Honey and bee wax. | (b) Silk thread. |
| (c) Shellac and dyes. | (d) All of the above. |

4 Mulberry is associated with :

- | | |
|-------------------------|-------------------|
| (a) Biological control. | (b) Apiculture, |
| (c) Sericulture | (d) Pisciculture. |

Name the following —

5 Scientific name of hook worm.

6 Mode of transmission of *Entamoeba histolytica*.

intermediate host of *Wuchereria bancrofti*.

8 Disease transmitted by sand fly.

Fill up the blanks :

9 Branch of science which deals with the study of nature and spread of infection is called _____

10 _____ is the definitive host of *Schistosoma haematobium*.

Turn over

11 In bees dance is meant for————

12 *Cysticercus* is the larval form of _____

Short answer questions. (Answer all *nine* questions)

13 What do you mean by "inoculative infection" ? Give an example.

14 Mention the importance of apiculture.

15 Define *autoinfection* with a suitable example.

16 What is a *parasitoid* ?

17 Mention the mode of transmission of *Enterobius vermicularis*.

18 What is the role of an intermediate host ?

19 Write down the damage caused by *Cosmopolites* sp.

20 Mention the economic importance of lac insect.

21 What is isinglass ? How is it produced ?

(9 x 1 = 9)

III. Short answer questions. (Answer any *five* questions)

22 Control methods of *Pediculus*.

23 Preparation of nuclei in pearl culture.

24 Eye stalk ablation in crustaceans.

25 Integrated pest management.

26 Uses of honey.

27 Harmful effects of *Leptocorisa*.

28 Pathogenic effects of *Wuchereria bancrofti*.

(5 x 2 = 10)

IV. Essay questions. Answer any *two* questions

29 Life cycle and pathogenesis of *Taenia solium*.

30 Methods of chemical and biological control of insect pests.

31 Social organization of honey bees.

(2 x 4 = 8)