



K18U 1922

Reg. No. : .....

Name : .....

**III Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.)**  
**Examination, November 2018**  
**(2014 Admn. Onwards)**  
**COMPLEMENTARY COURSE IN ZOOLOGY**  
**3C 03 ZLG : Agricultural and Forest Entomology**

Time : 3 Hours

Max. Marks : 32

I. Answer any one :

(1×6=6)

- 1) Describe the different physical and biological methods employed against insect pests.
- 2) Explain sericulture and the diseases of silk worm.

II. Answer any one :

(1×6=6)

- 3) Explain the life history, damage caused and control measures of
  - a) *Spodoptera mauritia*
  - b) *Batocera rufomaculata*
- 4) Explain the impact of pesticides in ecosystem. Briefly describe the alternative method to control pests.

III. Answer any four :

(4×3=12)

- 5) Write a note on male sterile technique.
- 6) What is a pest ? Add a note on classification of pests ?
- 7) Write a note on IPM.
- 8) Give scientific name of
  - a) Red palm weevil
  - b) Rice weevil. Write any one damage caused by each.
- 9) What is feeding deterrent ? Give example.
- 10) Differentiate Holometabolous and Hemimetabolous insects with examples.

IV. Answer **any six** :

(6×1=6)

- 11) Mention any two examples of pest of stored product.
- 12) What is economic threshold level ?
- 13) Give examples of any two Organophosphorus compounds.
- 14) What is the damage caused by armyworm ?
- 15) Write a note on Lac Culture.
- 16) Which two species of Honey Bees used in Apiculture.
- 17) Give two examples of Plant Extracts.
- 18) Differentiate apodous and oligopodus larva.
- 19) Note on Bee Wax.

V. Answer **all** the questions :

(2×1=2)

20) Match the following :

- |                         |                             |
|-------------------------|-----------------------------|
| a) Pyrethrum            | 1) Methyl bromide           |
| b) Hemimetabolous       | 2) Shellac                  |
| c) Stomach poison       | 3) <i>Leptocoryza acuta</i> |
| d) <i>Laccifer laca</i> | 4) Natural pesticide        |

21) Answer the following :

- a) \_\_\_\_\_ is a teak defoliator.
- b) Scientific name of a pest of tea.
- c) Location were a group of bee hives are kept.
- d) DDT stands for