

Reg. No.:	
Name:	



III Semester B.Sc. Degree (CCSS - Supple./Improve.)

Examination, November 2015

Complementary Course in Zoology

3C03 ZLG: AGRICULTURAL AND FOREST ENTOMOLOGY

(2013 and Earlier Admissions)

Time: 3 Hours Max. Weightage: 25

Instruction: Give illustrations wherever necessary.

- Answer any two : (Wt : 4 each)
  - Explain the life history of any two mango pests. Give an account on their nature of destruction and control measures.
  - Explain various classes of insecticides with examples. Add a note on their hazards and guidelines for safe use.
  - Illustrate lac cultivation, its extraction, purification and economic importance.
     Add a note on the life history of Laccifer laca.
  - 4) Write the characteristic features of the following insect orders. Give the scientific name of one insect from each order.
    - a) Heteroptera

b) Lepidoptera

 $(2 \times 4 = 8)$ 

- II. Answer any four : (Wt : 2 each)
  - 5) Explain the control measures of coconut pests.
  - 6) Write any four adaptations of worker bee.
  - 7) Enumerate the merits and demerits of biological control of insect pests.
  - 8) Illustrate the life history of Spodoptera mauritia.
  - 9) Enumerate the uses of honey and bees wax.

	10)	Comment on synthetic insecticides and their hazards.				
	11)	What is LD50 value ?				
11	I. Ar	swer any sev	en : (Weigh	nt:1 each)		
	12)	What are occasional pests?				
	13)	Give an example for Hymenoptera.				
	14)	Comment on insect repellents.				
	-011650	What are carbamates?				
		Define oligonod larva. Give one example				
		What are key pests ?				
		(NDEN II JVV) JOWN YOR TOWARDS IT				
	18)	Comment on hemimetabolous development.				
	19)	Give two example of paddy pests.				
	20)	) Mention the control measures of Stromatium barbatum.				
	21)	Mention the o	lamage cau	sed by <i>Mimela</i> .	(7×1=7)	
IV.	Ans	swer the following : (Weight : 1 each)				
	22)	a) Scientific name of Sal sapwood borer is				
		b) Endrin is an example for compound.				
		c)	is	s a pest of vegetable.		
		d)	is	s a coconut pest.		
٧.	Mat	ch the followir	ng:			
	23)	a) Aeolesthe	s :	Cutworm		
		b) Holotricha	a losmo i la s	Wood borer		
		c) Lyctus	-	White grub		
		d) Agrotis	:	Powder post beetle		
				Mango pest	(2×1=2)	