

OPEN UNIVERSITY OF SRI LANKA
DEPARTMENT OF ZOOLOGY
BSc DEGREE PROGRAMME
ACADEMIC YEAR 2013/2014
FINAL EXAMINATION



COURSE TITLE - MANAGEMENT OF INSECT PESTS AND
VECTORS OF DISEASES.

COURSE CODE – ZLU4180

DATE – 12th NOVEMBER, 2014

TIME – 1.30 PM – 3.30 PM

Answer any **four (4)** questions

- 1) Describe the life cycles of coleopteran pests of coconut and explain the damage they cause to coconut palms. (100 marks)
- 2) Compare and contrast between mosquitoes and houseflies with respect to morphology of adults, life cycle, bionomics, disease transmission and medical importance. (100 marks)
- 3) a) State the major types of insect natural enemies and describe how they affect life cycle stages of their host insects. (40 marks)
b) Explain in detail types of chemical insecticide control applications that will allow natural enemies of pests to survive in crop fields. (60 marks)
- 4) Discuss the advantages of using plant resistant varieties in insect pest management, as opposed to application of conventional chemical insecticides. (100 marks)
- 5) Describe ten different cultural control methods that can be used in crop fields, stating clearly the principle behind each application and supported by examples. (100 marks)
- 6) Write short notes on any **three (3)** of the following: (100 marks)
 - a) Sterile insect technique
 - b) *Leptocoriza oratorius*
 - c) *Bactrocera cucurbitae*
 - d) Bti and its application in pest and vector control.