

THE OPEN UNIVERSITY OF SRI LANKA  
B.Sc DEGREE PROGRAMME – LEVEL 5

COURSE TITLE – ENTOMOLOGY – 2008/2009  
COURSE CODE – ZOU 3163/5163



118

FINAL EXAMINATION  
DURATION: TWO AND HALF HOURS (2 1/2)

---

Date: 05<sup>TH</sup> January 2009

Time: 09.30 am – 12.00 noon

---

**Illustrate your answers with labeled diagrams.**

**ANSWER ANY FOUR (04) QUESTIONS.**

1. Explain the role of insect communities in the ecosystems.
2. Write an account on semiochemicals of insects.
3. Describe in detail the structure of the insect integument and explain the process of moulting upto the formation of the new cuticle.
4. Describe a typical male reproductive system of an insect and comment on the different types of reproduction found in insects giving examples.
5. Write an account of the order Diptera.
6. Write short notes on **any three (03)** of the following.
  - (a) *Apis mellifera*
  - (b) Diapause in insects
  - (c) Tracheal system
  - (d) Malpighian tubules

(Copy write reserved)