NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF APPLIED SCIENCES DEPARTMENT OF FOREST RESOURCES AND WILDLIFE MANAGEMENT BACHELOR OF SCIENCE HONOURS DEGREE MAIN EXAMINATION

ENTOMOLOGY FOR FOREST AND WILDLIFE: EFW 4208

May 2013 Time Allowed: 3 Hours Total Marks: 100

INSTRUCTIONS TO CANDIDATES:

Answer QUESTION ONE and any THREE others. Each question carries 25 marks.

- 1. Describe the integrated pest management procedure for a long lasting solution to insect pest outbreaks in combined tree plantation.
- 2. With NAMED examples of insect pests, discuss the nature and effect of insect damage to different parts of a tree.
- 3. With named examples of insect species, describe the ecosystem services provided by insects.
- 4. Explain how sound knowledge on the ecology, biology and behaviour of tsetse flies has been applied in their control in Africa.
- 5. (a) Describe the life cycle of the brown wattle mirid, (*Lygidolon laevigatum*) on the black wattle (*Acacia mearnsii*). [12 marks]
 - (b) Describe the nature and effects of damage of this pest and suggest methods of its control and monitoring. [13 marks]
- 6. Produce a tick management strategy in a mixed livestock and wildlife production system.

END OF PAPER