



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2013/2014

**FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE (AGRONOMY, ANIMAL
SCIENCE AND HORTICULTURE) WITH INFORMATION
TECHNOLOGY**

(MAIN - CAMPUS)

AHC 102: BASIC ENTOMOLOGY

Date: 22nd July 2014

Time: 8.30 – 10.30 am

INSTRUCTIONS:

- Attempt ALL questions in this paper.



TOTAL MARKS

70%

1. With a relevant examples, in each case, describe the morphology of the following Arthropods: Arachnida, Diplopoda Chilopoda **(3 marks)**
2. Explain, with at least four relevant examples, why it is essential to study Entomology.**(4 marks)**
3. Describe the functions of the three major parts of an insect's body **(6 marks)**
4. Using, four, examples, describe how insects are uniquely different from other Arthropods. **(4 marks)**
5. Briefly, discuss the adaptability of the excretory systems of insects. **(3 marks)**
6. Explain the process of insect development from egg to adult.**(6 marks)**
7. Discuss any **four** ways of communications in insects.**(4 marks)**
8. Several types of antennae are used in communication, discuss. **(3 marks)**
9. Give any seven modifications of legs of insects and justify functions each one of themperform. **(7 marks)**
10. Account for the exoskeleton its functions in the class Insecta. **(15 marks)**
11. Using relevant examples, explain at least seven mouthparts types in insects. **(15 marks)**