



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2016/2017

**THIRD YEAR FIRST SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE AND BACHELOR OF
EDUCATION SCIENCE WITH INFORMATION TECHNOLOGY**

MAIN CAMPUS

SZL 309: INSECT SCIENCE

Date: 13th December, 2016

Time: 12.00 - 3.00 pm

INSTRUCTIONS:

- Answer ALL questions in SECTION A and any TWO in SECTION B.



SZL 309 INSECT SCIENCE

INSTRUCTIONS: ANSWER ALL QUESTIONS IN SECTION A. ANSWER ANY TWO QUESTIONS IN SECTION B.

TIME: 2 Hours

SECTION A (40 MARKS)

ANSWER ALL QUESTIONS IN THIS SECTION (5 MARKS EACH)

1. State FIVE main characteristics of Order Coleoptera.
2. Illustrate the structure of insect head.
3. Briefly discuss the medical and therapeutic value of insects.
4. List any FIVE reasons for the success of class insecta.
5. Briefly describe the circulatory system of insects.
6. Differentiate between pheromones and allelochemicals.
7. Briefly describe the structure and role of stomodaeal nervous system.
8. List any FIVE mechanisms insects use for their survival.

SECTION B (30 MARKS)

ANSWER ANY TWO QUESTIONS IN THIS SECTION (15 MARKS EACH)

9. Describe the general structure of an insect thorax and leg as well as the various modifications in the structure and function of insect leg.
10. Describe the structural and functional unit of insect compound eye and highlight the difference between the compound eyes of nocturnal and diurnal insects.
11. Differentiate between innate, learned and complex behaviour and describe the types of innate behaviour found in insects.

12. Discuss the role of insects as herbivores, carnivores and decomposers.