



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SZL 404: INTEGRATED PEST AND VECTOR MANAGEMENT

DATE: Tuesday, 27th March, 2012

TIME: 8.00 a.m. – 10.00 a.m.

INSTRUCTIONS:

Answer **ALL** questions in Section a and any **ONE** in Section B. Illustrate your answers with diagrams and give examples where appropriate.

SECTION A:

Answer **ALL** questions (40 marks)

1. Giving examples outline how classical control programmes can be established.
2. Define “push-pull” strategy and explain its application.
3. Explain the damage caused on coffee by a named coffee pest.
4. Describe the following types of parasitisms in insects:
 - a) Hyperparasitism
 - b) Multiparasitism
5. Define economic threshold and state the determining factors.
6. Explain the damage caused on tomatoes by a named pest.

7. a) Define genetic control method and outline the effects of exposure of germ cells to a source of irradiation on insects.
 b) The exposure of germ cells before gametogenesis
8. Outline the damage caused on cotton by cotton stainer.

SECTION B:

Answer any **ONE** question (30 marks)

9. Tomato production in Mwea irrigation scheme and Kirinyaga has declined as a result of the cotton whitefly. Discuss this statement.
10. Give a detailed account of the economic importance and the management of the banana weevil, *Cosmopolites sordidus*.