



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR
OF SCIENCE AGRIBUSINESS MANAGEMENT - 2013/2014 ACADEMIC YEAR

APT 3313: CROP PROTECTION

Instructions:

1. This paper consists of **TWO** sections, **A** and **B**.
2. Answer **ALL** questions from section **A** and any **TWO** from section **B**.
3. Write all answers in the booklet provided.

SECTION A [30 MARKS]

Answer ALL questions.

1. Define the following terms in crop protection:
 - a) Plant quarantine. [2marks]
 - b) Field sanitation. [2marks]
 - c) Pest surveillance. [2marks]
2. Describe the role of KEPHIS in crop pest control in Kenya. [3marks]
3. Distinguish between the following with examples:
 - a) LC₅₀ and LD₅₀. [2marks]
 - b) Import permit and phytosanitary certificate. [2marks]
 - c) Acaricide and Nematicide. [2marks]
4. Explain the following types of poisoning / toxicity from use of pesticides with examples.
 - a) Mutagenicity. [2marks]
 - b) Oncogenicity. [2marks]
 - c) Teratogenicity. [2marks]
5. List 3 objectives of pesticide formulation and how they affect choice of application equipment. [3marks]
6. Analyse the suitability of the following order of crops in a rotation programme:
 - a) Main crop(M)– Solanaceous, crucifers, cucurbits.
 - b) Legumes(L)– beans.
 - c) Root Crops (R) – carrot; sweet potato.
 - d) Optionals(O) – lettuce, spinach.
 - e) Dry crops(D) – corn. [6marks]

SECTION B [40 MARKS]

Answer ANY TWO questions.

7. Discuss the importance of using an integrated crop management system with specific reference to EIL and ETL. [20marks]
8. List and describe briefly five methods used to eliminate pests from planting material. [20marks]
9. Choose a crop of economic importance in Kenya and discuss the common pests associated with it and the control methods recommended. [20marks]