



*"Investing in Africa's Future"*

## **FACULTY OF AGRICULTURE AND NATURAL RESOURCES**

**ACP504: INSECT PEST MANAGEMENT**

**END OF FIRST SEMESTER EXAMINATIONS**

**NOVEMBER/DECEMBER 2016**

**LECTURER: DR. W. MANYANGARIRWA**

**DURATION: (3HRS)**

### ***INSTRUCTIONS***

1. Do Not Write Your Name On The Answer Sheets.
2. Use Answer Sheets Provided.
3. Begin Your Answer For Each Question On A New Page.
4. Credit Is Given For Neat Presentation Of Answers.



## ACP 504 INSECT PEST MANAGEMENT

### INSTRUCTION

#### ANSWER ANY FOUR QUESTIONS

1. a) Give a detailed outline of the insect pest spectrum on tobacco. [16]  
b) Suggest ways in which smallholder farmers can minimize incidences of pesticide poisoning in tobacco production. [9]
2. a) Outline the ways in which insects develop resistance to insecticides. [15]  
b) Evaluate the effectiveness of measures enunciated by the Insecticide Resistance Action Committee (IRAC) on preventing insecticide resistance [10]
3. Write short notes on the following aspects;
  - a) Biological control of the diamondback moth in brassicas. [6]
  - b) Assessment of the Quality of spray from a nozzle. [6]
  - c) Factors to consider in the choice of spraying equipment [6]
  - d) The use of ***Bt*** products in pest management. [7]
4. Assess the effectiveness of pheromones and insect growth regulators in insect pest management. [25]
5. Write an essay on the application of the concepts of Economic Injury Levels (EIL) and Economic Thresholds (ET) in pest management. [25]
6. Discuss the different types of sprayers that farmers can use to spray insecticides in different pest management situations. [25]
7. Suggest ways in which multinational pesticide manufacturers can make use of Genetic Engineering to broaden and improve insect pest management options for farmers. [25]

**End of Exam Paper**