



**NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF CROP AND SOIL SCIENCE
2024_2 EXAMINATION**

COURSE TITLE: PLANT PEST AND DISEASE CONTROL (2 CU)

COURSE CODE: CRP 513

TOTAL SCORE: 70 MARKS

INSTRUCTION: Answer 3 questions in all

Question 1 is compulsory (30 marks) and any other TWO questions (20 marks each)

TIME ALLOWED: 2 ½ Hours

Question 1

- a) Define pest complex (5 marks)
- b) Outline two (2) important information that an Economic Injury Level (EIL) value could give a pest manager (4 marks)
- c) Give the simplified EIL equation and define the major components (9 marks)
- d) Differentiate between (i) Serious Pest and Major Pest (ii) Economic pest and Key Pest (iii) Economic damage and Economic threshold (12 marks)

Question 2

- a) Discuss five (5) factors considered in the choice of control measures (10 marks)
- b) Discuss four (4) categories of control measures based on the mode of action (8 marks)
- c) Mention eight (8) methods of pest control used in agriculture (2 marks)

Question 3

- a) Write short notes on how these groups of living organisms could be used for insect pest control (15 marks)
 - (i) Predators
 - (ii) Pathogens
 - (iii) Parasites
- b) Mention two (2) ways in which pheromones could be used in a pest control programme (5 marks)

Question 4

- a) How would you define the term 'plant disease'? (3 marks)
- b) Differentiate between symptoms and signs of disease (6 marks)
- c) What is an inoculum? (3 marks)
- d) Give four (4) examples of an inoculum (4 marks)
- e) List eight (8) abiotic factors that can induce disease in plants (4 marks)