



**NATIONAL OPEN UNIVERSITY OF NIGERIA
DEPARTMENT OF CROP AND SOIL SCIENCE
FACULTY OF AGRICULTURAL SCIENCES
EXAMINATION QUESTIONS, APRIL 2019**

COURSE TITLE: PRINCIPLES OF CROP PROTECTION

COURSE CODE: ACP305

CREDIT UNIT: 2 Credit Units

Instruction: Answer four questions in all; No. 1 is compulsory (25 Marks) and any other three questions (15 Marks each).

1. a. Give any three (3) definitions of pests (6 marks)
b. What is the general importance of crop pests (5 marks)
c. Mention and explain the two (2) key conditions which promote pests (8 marks)
d. List and briefly discuss 3 general control measures of crop pests (6 marks)

2. a. State and briefly explain five (5) categories of pests (10 marks)
b. Give at least one (1) example in each category (5 marks)

3. a. List and briefly explain 5 important pests of **cereal** crops (10 marks)
b. Outline at least five (5) cultural control methods of cereal crop pests (5 marks)

4. Explain the following and give **two examples** each;
i. Biting and chewing insects (5marks)
ii. Piercing and sucking insects (5 marks)
iii. Boring insects (5 marks)
(Note: explanation carries 3 marks, examples carry 2 marks in each case)

5. a. Discuss the following plant diseases
i. Cassava bacteria blight (CBB)
ii. Downy mildew
iii. Rust
iv. Smuts
v. Rice blast 3 marks each i.e. 15 marks

6. a. List and explain **5 ways** of controlling plant viral diseases (10 marks)
b. Briefly discuss **Any 2** different symptoms of Nematode diseases in plant (5 marks)