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**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**DEPARTMENT OF CROP AND SOIL SCIENCE**

**FACULTY OF AGRICULTURAL SCIENCES**

**PRINCIPLES OF CROP PROTECTION-ACP 305, EXAMINATION QUESTIONS**

**2018 2 SEMESTER POP EXAMINATION**

**Instruction: Answer four questions in all; No. 1 is compulsory (25 Marks) and any other three questions (10 Marks each), 2 Credit Units**

1. a. Define pathogens? (3 marks)

b. List and explain 3 groups under which pathogens are categorized (9 marks)

c. Name and briefly describe any 5 disease symptoms due to character and appearance of

 visible pathogens (10 marks)

 d. Mention 3 general control methods of plant diseases (3marks)

 **Total = 25 marks**

1. a. Give any two definitions of pest and state 5 categories of it (9 marks)

b. List and briefly **discuss 3 general** control measures of crop pests (6 marks)

**Total = 15 marks**

1. a. List and briefly explain 5 important pests of **cereal** crops (10 marks)

b. Write short notes on **Any 2** of the following;

1. Biting and chewing insects
2. Piercing and sucking insects
3. Boring insects (5 marks)

**Total = 15 marks**

1. a. Discuss the following plant diseases
2. Cassava bacteria blight (CBB)
3. Downy mildew
4. Rust
5. Smuts
6. Rice blast 3 marks each i.e. 15 marks

 ; **Total = 15 marks**

1. 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)

 **Total = 15 marks**

1. a. What are the 2 major disease causing pathogens of stored products (5 marks)

b. Discus five (5) ways of controlling diseases of stored products (10 marks)

 **Total = 15 marks**