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## NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES DEPARTMENT OF CROP AND SOIL SCIENCES

**EXAMINATION: POP EXAMINATION 2021\_2** 

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

COURSE CODE: CRP513 TOTAL SCORE: 70 MARKS TIME ALLOWED: 2hours

INSTRUCTION: Answer THREE Questions in All. Question 1 is compulsory (30marks) and any

two questions (20 marks each)

1

- a. i. Define plant disease. (3 marks)
  - ii. What do you understand by the word pathogen. (3 marks)
  - iii. Name any five (5) common plant disease pathogens. (5 marks)
- b. i. Identity three nonliving disease causing factors. (3 marks)
- c. ii. List three (3) factors must coexist for plant disease to occur. (3 marks)
- d. iii. Identity five (5) vectors of virus diseases of plants. (5 marks)
- e. (c). State briefly how (i) temperature and (ii) light intensity affects plant disease. (8 marks)

## 2. Write short notes on;

- a. Any two (2) of the following cultural methods of plant pest/ disease control given below; (10marks)
  - (i). Optimal growing conditions
  - (ii). Time of sowing.
  - (iii). Inter cropping
  - (iv). Crop rotation
- b. Any two (2) of the following biological methods of plant pest control; (10marks)
  - (i). Genetic manipulation
    - (ii). Predators.
    - (iii). Pathogens
    - (iv). Insect population monitoring

3.

- a. (a). Use the disease triangle diagram to discuss the conditions for disease development (10 marks).
- b. (b). Discuss the concept of integrated plant disease management (10 marks)

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4.

- a. Briefly explain the any two of following modes of action of chemical insecticide;
  - (i). Systemic poison
  - (ii). Stomach poison
  - (iii). Contact poison

b.

- (i). What do you understand by "past application effects of chemical pesticides? "
- (ii). Briefly explain any three (3) post application effects of chemical pesticides (Total 20 marks).

