



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

**COURSE TITLE: PRINCIPLES OF CROP PROTECTION (2 CU)**

**COURSE CODE: CRP 303**

**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**

- 1 a. With example(s), categorize pests on the basis of the concept of economic threshold and depending on the severity of damage caused, the number of organisms involved, frequency of occurrence and the prevailing circumstances. 15marks  
b. Discuss the indirect effects of weeds on crop 6marks  
c. List insect pests of legumes. 9marks
- 2 a. Evaluate Leafhopper (*Cicadulina spp*) as an insect pest of cereals in Nigeria. 14marks  
b. Write very short notes on the following as symptoms of disease;  
i. Smut, ii. White blisters, iii. Atrophy/hyperplasia (dwarfing) 6marks
- 3 a. Discuss "*Mylabris spp*" on the following headings;  
i. common names 1marks  
ii. morphology 2marks  
iii. mode of spread 3marks  
iv. major and minor hosts 1mark  
v. part of plant affected 1marks  
vi. control 6marks  
b. List biological system of weeds control. 6marks
- 4 a. Categorize storage pests based on their feeding habit. 14marks  
b. List any 4 chronic or multiple dose poison you have studied. 6marks