



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

EXAMINATION: 2021_2 POP EXAMINATION

COURSE TITLE: ADVANCED CROP PROTECTION (2CU)

COURSE CODE: CRP 504

TOTAL SCORE: 70 MARKS

2021 EXAMINATION

INSTRUCTION: Answer THREE Questions in all.

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

TIME ALLOWED: 2hours

Q1

- (a) Briefly discuss the chemical and non-chemical control measures of millet stem borer (*Pennisetum americanum*) (10 marks)
- (b) Rats are commonly found in buildings and habitations and they cause a lot of damage to food and materials. Briefly outline the mechanical control measures of rates in order to reduce their damage (10 marks)
- (c) Outline the cultural methods of Root-knot nematode control in Nigeria (10 marks)

Q2

Damage by insects can be grouped into three categories. Briefly discuss two categories of the nature of damage caused. (20 marks)

Q3

- (a) Discuss the nature of damage of cassava mealybug (*Phenacoccus manohoti*) to its host, the cassava plant (10 marks)
- (b) Outline the cultural methods of control of cassava mealybug (10 marks)

Q4

- (a) Mention the only four weed management systems (8marks)
- (b) Mention the biological methods employed in the control of weeds in Nigeria. (12 marks)