



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

EXAMINATION: 2021_1 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 of maize leaf hopper (*Cicaduhina* spp) (10 marks)

(b) (i) Give two examples of Root-knot nematodes in Nigeria (4 marks)

(ii) Explain the above ground symptoms of crops damaged by nematodes (6 marks)

(c) From the list of herbicides below, indicate the appropriate crop for the herbicide (10 marks)

- i. Atrazine + metalachlor
- ii. Propanol + Bentazone
- iii. Pendimethaline
- iv. Linuron + Pendimethalin
- v. Metolachlor + Metobromuron

Q2

With examples, describe the following categories of insect pests

(a) Potential pests (5 marks)

(b) Migrant pests (5 marks)

(c) Occasional pests (5 marks)

(d) Minor pests (5 marks)

Q3 Discuss in detail the direct effects of weeds on crops (20 marks)

Q4

Write explanatory notes on the five different types of damage caused by storage pests (20 marks)