



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

EXAMINATION: 2021_2 POP EXAMINATION

COURSE TITLE: BIOTECHNOLOGY IN CROP/PEST MANAGEMENT (3 CU)

COURSE CODE: CSP 401

TOTAL SCORE: 70 MARKS

2021 EXAMINATION

INSTRUCTION: Answer FOUR Questions in all.

Question 1 is compulsory (25 marks) and any THREE Questions (15 marks each)

TIME ALLOWED: 3hours

Q1

- a) Explain in detail the advantages of Micropropagation (10 marks)
- b) Explain the term Transgenic plants (10marks)
- c) What do you understand by Recombinant genes (5 marks)

Q2

State clearly the effects of mutation that can lead to transitions, transversions and deletion (15 marks)

Q3

What are the advantages of herbicide resistant cultivars in crops (15 marks)

Q4

Write short notes on:

- (a) Organic fertilizers (8 marks)
- (b) Biocompost (7 marks)

Q5

In what ways can you delay or prevent herbicide resistance (15 marks)