



NATIONAL OPEN UNIVERSITY OF NIGERIA

**University Village, Nnamdi Azikwe Express Way, Plot 91,
Cadastral Zone,
Jabi, Abuja**

Faculty of Agricultural Sciences

FIRST SEMESTER EXAMINATION: June/July

COURSE CODE: CSP 401

COURSE TITLE: BIOTECHNOLOGY IN CROP/PEST MANAGEMENT [3 CREDITS]

**INSTRUCTION: ANSWER ALL QUESTIONS IN PART ONE AND ANY OTHER 4
QUESTIONS IN PART TWO**

TIME ALLOWED 3 HOURS

PART ONE

1. a. what is Biotechnology?
- b. What are the advantages and disadvantages of micropropagation?

PART TWO

2. Enumerate the advantages of herbicide resistant cultivars
3. Discuss the role of Nitrogen in the biosphere
4. Differentiate between Nitrification and denitrification
5. Differentiate between fungal pathogens and bacterial pathogens
6. What is biofertilizer?
7. Discuss the following
 - a. Conventional biotechnology

b. Multiplication