



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

**EXAMINATION: 2021\_2 POP EXAMINATION**

**COURSE TITLE: INTRODUCTION TO CROP BIOTECHNOLOGY (2CU)**

**COURSE CODE: CRP 511**

**TOTAL SCORE: 70 MARKS**

**INSTRUCTION: Answer *THREE* Questions in all.**

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

**TIME ALLOWED: 2hours**

**Q1**

- (a) Briefly explain four importance of crop biotechnology. (10marks)
- (b) What are the traits in crop biotechnology? (10marks)
- (c) Explain plant tissue techniques. (10marks)

**Q2**

- (a) Discuss the methods of Micro-propagation. (10marks)
- (b) Explain briefly, the three crucial factors, which influence the induction of androgenesis? (10marks)

**Q3**

Discuss in detail what you understand by high speed cell sorting? (20marks)

**Q4**

Explain in detail the steps that are involved in preparation of specimen for observation in the electron microscope? (20 marks)