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NATIONAL OPEN UNIVERSITY OF NIGERIA Faculty of Agricultural Sciences Department of Crop & Soil Science

CSP - 401: BIOTECHNOLOGY IN CROP/PEST MANAGEMENT [3 CREDITS]

INSTRUCTIONS: Answer five questions in all. Question one is compulsory and it carries 30 marks. The rest carry 10 marks each.

TIME ALLOWED 2 30: Minutes.

- 1. a. what is Biotechnology?(5 Marks)
- b. What are the advantages of micro propagation? (20 Marks)
 - c. What are the causes of spontaneous mutations on the molecular level?(5 Marks)
- 2. Enumerate the advantages of herbicide resistant cultivars(10 Marks)
- 3. Discuss the role of Nitrogen in the biosphere (10 Marks)
- 4. Differentiate between Nitrification and denitrification(10 Marks)
- 5. Differentiate between fungal pathogens and bacterial pathogens (10 Marks)
- 6. What is biofertilizer? (10 Marks)
- 7. Discuss the following (10 Marks)
 - a. Conventional biotechnology
 - b. Multiplication