



**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**FACULTY OF AGRICULTURAL SCIENCES**

Km 4 Kaduna-Zaria Expressway Rigachikun, Kaduna

**DEPARTMENT OF CROP AND SOIL SCIENCES**

**2020\_2 EXAMINATION**

**COURSE CODE: AGB 404**

**COURSE TITLE: BIO-RESOURCE MANAGEMENT**

**TOTAL CREDIT UNITS: 3 CU**

**INSTRUCTIONS:** Answer five questions in all. Question one is compulsory (30 marks). The rest carry 10 marks each.

1) (a) In a sentence what you understand by:

- (i) Species diversity (5 marks)
- (ii) Ecosystem diversity (5 marks)

(b) In what ways has dependence on improved varieties of crops affected genetic erosion in Nigeria (10 marks)

(c) The use of biotechnology in forestry production has some enormous advantages, mention all. (10 marks)

2) Explain the importance or uses of biodiversity in:

- (a) Environmental maintenance (5 marks)
- (b) Agriculture (5 marks)

3) In what ways do genetic erosion occur in plant species (10 marks)

4) Mention five indirect causes of genetic erosion in Nigeria. (10 marks)

5) The genes from some potential plants may not be represented in the seeds due to some random factors. Mention those random factors. (10 marks)

6) There are enormous benefits in germplasm conservation of our bio-resources but this has met a number of obstacles. Mention these obstacles that affect effective use of germplasm in Nigeria. (10 marks)

7) What is the status of germplasm appropriation in Nigeria? (10 marks)