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## NATIONAL OPEN UNIVERSITY OF NIGERIA FACULTY OF AGRICULTURAL SCIENCES DEPARTMENT OF ANIMAL SCIENCE & FISHERIES

**Examination Questions:** January, 2018

Course Title: BIO-RESOURCE MANAGEMENT (3 Credit Unit)

Course Code: AGB 404

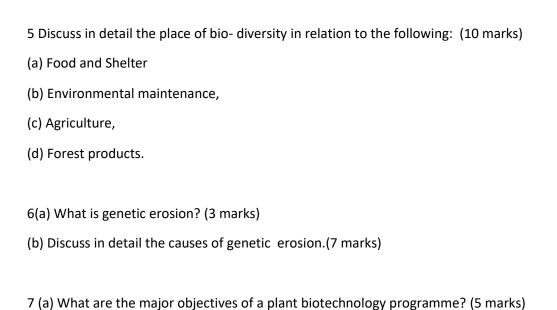
Instructions: Total marks = 70. Question 1 is compulsory (30 marks), then answer

any other 4 out of the 6 that follow (10 marks each).

Time Allowed: 2 ½ hours

- 1(a) Define term "germplasm". (5 marks)
- (b) What is bio-resource management? (6 marks)
- (c) List five conservation agencies in Nigeria. (5 marks)
- (d) What does the convention on biological diversity commit countries to? (6 marks)
- (e) Distinguish between In-situ and Ex-situ approach to biodiversity management. (8 marks)
- 2(a) Define the term biodiversity. (4 marks)
- (b) Write short notes on the levels of biodiversity. (6 marks)
- 3(a) What are the factors that determine the status and structure of an ecosystem? (3 marks)
- (b) What determines the uniqueness of an ecosystem? (3 marks)
- (c) What does variation observed in an ecosystem reflect? (4 marks)
- 4(a) Give example of three of the following stating their common and scientific names: (4 ½ marks)
- i)local legumes,
- ii)local fruits,
- iii)local cereals.
- (b) What determines the flora and fauna diversity? (4 marks)
- (c) How can the web of life be sustained? ( $1\frac{1}{2}$  marks)

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(b) What are the major benefits of using biotechnology in forestry? (5 marks)