



**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)
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- 2(a) Define the term biodiversity. (4 marks)
- (b) Write short notes on the levels of biodiversity. (6 marks)
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- 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)
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- 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? (1½ marks)

5 Discuss in detail the place of bio- diversity in relation to the following: (10 marks)

(a) Food and Shelter

(b) Environmental maintenance,

(c) Agriculture,

(d) Forest products.

6(a) What is genetic erosion? (3 marks)

(b) Discuss in detail the causes of genetic erosion.(7 marks)

7 (a) What are the major objectives of a plant biotechnology programme? (5 marks)

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