



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? (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)