



# **NATIONAL OPEN UNIVERSITY OF NIGERIA**

**University Village, Nnamdi Azikwe Express Way, Plot 91,  
Cadastral Zone,  
Jabi, Abuja**

**Faculty of Agricultural Sciences  
FIRST SEMESTER EXAMINATION: June/July**

**COURSE CODE: AGB 404**

**COURSE TITLE: BIO -RESOURCE MANAGEMENT (2 CREDIT UNIT)**

**DURATION: 3 HOURS**

**ANSWER FIVE QUESTION ONLY**

## **QUESTION 1**

- a) Give two (2) definitions of biodiversity. (6 marks)
- b) Write a short note on biodiversity (5marks)
- c) Discuss the various levels of biodiversity (9 marks)

## **QUESTION 2**

- a) Define ecosystem and explain its characteristics (14 marks)
- b) What does the term distinct species means? (2 marks)
- c) Write a short note on association of species (4 marks)

## **QUESTION 3**

- a. Explain the status of biodiversity in the Nigerian ecosystem. (8 marks)
- b. Name the three (3) main types of biodiversity and explain them (12marks)

## **QUESTION 4:**

- a. What are the uses of biodiversity? (8marks)
- b. Discuss the reasons for occurrence of genetic erosion in animal and plant species (12 marks)

## **QUESTION 5**

- a. State the four (4) direct and six (six) indirect causes of genetic erosion in Nigeria. (10 marks)
- b. Discuss the methods of managing genetic erosion. (10 marks)

## **QUESTION 6**

- a. Define plant biotechnology and give their uses (6 marks)**
- b. State indicators of biotechnological achievements (4 marks)**
- c. Discuss the benefits of plant biotechnology to farmers, producers and consumers (10 marks)**

## **QUESTION 7**

- a. List the benefits of using biotechnology in forestry (5 marks)**
- b. What is Germplasm Conservation? (5 marks)**
- c. Identify five benefits of Germplasm Conservation (5 marks)**
  - 1. Highlight obstacles to the effective use of Germplasm**