



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
MARCH/APRIL 2015 EXAMINATION

SCHOOL OF AGRICULTURAL SCIENCES

COURSE CODE: AGB 404
COURSE TITLE: BIO-RESOURCE MANAGEMENT **UNITS:** 3
TIME: 2 ½ hours

INSTRUCTION: Answer any five questions. **Each question carries 20 marks.**

1. (a) What is biodiversity?
(b) Write short notes on the attributes of an ecosystem
(c) How are ecosystems assessed?
2. (a) Give three examples each of local cereals, legumes and fruit trees (English and botanical names should be stated)
(b) Why is biodiversity necessary?
3. Discuss in detail the major causes of genetic erosion in Nigeria
4. (a) What is biotechnology?
(b) What are the major objectives of a plant biotechnology programme.
5. (a) With reference to biotechnology, list the major traits of economic importance in plants.
(b) What are the major benefits of using biotechnology in forestry?
6. (a) Nigerian government has set up various agencies to manage natural resources within its territory. Name four agencies each in the following categories:
 - (i) Conservation agencies
 - (ii) Game reserves
 - (iii) Forest reserves
(b) Distinguish between In-situ and Ex-situ approach in the management of biodiversity.
7. (a) Define the term “ecosystem”
(b) Briefly explain the factors that defines the uniqueness of a functioning ecosystem.