



NATIONAL OPEN UNIVERSITY OF NIGERIA

FACULTY OF SCIENCES

DEPARTMENT OF ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT

Plot 91, Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja

2021_2 EXAMINATION⁴⁸⁶⁷

COURSE CODE: ESM 328

COURSE TITLE: BIODIVERSITY CONSERVATION

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

Instruction: Attempt question number ONE (1) and any other THREE (3) questions. Question number one (1) carries 25 marks, while the other questions carry (15) marks each.

- QUESTION 1 a. Mention the classes of habitat diversity in West Africa.
b. State the specific number of plants and mammals that are endemic to Western African ecosystem.
c. State three (3) ways by which sacred groves is applied to protect biodiversity.
d. Explain the significance of protected area in national economy.
- QUESTION 2 a. Outline six (6) characteristics of the tropical rainforest.
b. Mention six (6) interventions in the ecosystem that contribute to biodiversity loss.
c. Mention and explain a major protective measure for the survival of biodiversity on a global scale.
- QUESTION 3 a. State the resourcefulness of savannah ecosystem.
b. What factors contribute to widespread degradation of the savannah ecosystem?
c. Enumerate the consequences of savannah ecosystem degradation.
- QUESTION 4 a. State four (4) sources of threat to Africa's biodiversity.
b. Give four (4) reasons for species extinction in the ecosystem.
c. Explain seven (7) processes through which non-native or alien species threaten biodiversity.
- QUESTION 5 a. Highlight the aim and scope of the protocol of biodiversity conservation.
b. Write explanatory note on the following:
- i. Biological diversity
 - ii. Landscape
 - iii. Landscape Diversity