



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF SCIENCES
DEPARTMENT OF ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT
Plot 91, Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja
2020_2 EXAMINATIONS

COURSE CODE: ESM328

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. Using concrete example define Biodiversity.

b. Mention two dimensions of biological diversity with two examples each.

c. Outline three characteristics of biodiversity.

d. Using biological perspective, define a specie.

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. Describe usefulness of biological resources.

b. List the resourcefulness of the wood components of the tropical rainforest.

c. Enumerate the environmental significance of trees.

QUESTION 4 a. List four (4) sources of threat to Africa's biodiversity.

b. Mention four (4) reasons for species extinction on a global scale.

c. Explain seven (7) processes through which non-native or alien species threaten biodiversity.

QUESTION 5 a. List three (3) measures for conserving forest biological diversity.

b. Explain any one (1) of the measures listed in (a) above.

c. Write explanatory note on any two (2) of the following attempt at biological conservation:

i. Government initiatives

ii. Incentives and rebates

iii. Voluntary protection

iv. Cooperative programs