



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**Plot 91, Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja**  
**FACULTY OF SCIENCES**  
**DEPARTMENT OF ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT**  
**2025\_2 EXAMINATIONS**

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**Course Code: ESM 428**

**Course Title: Ecology of Natural Resources**

**Course Unit: 2 Credit Units**

**Time Allowed: 2<sup>1</sup>/<sub>2</sub> Hours**

**Total Score: 70 Marks**

**Instructions:** Answer Question one (1) and any other two (2). *Question carry 30 marks while other Questions carry 20 marks each*

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| 1(a) State the differences between biotic resources and abiotic resources  | 5marks  |
| 1(b) Discuss in detail Game Reserves as Wildlife Conservation Tools in Nigeria   | 10marks |
| 1(c) Give a detail analysis on the term Biogeochemical Cycles  | 15marks |
| 2(a) Explain in the concept of Environmental Impact Assessment   | 10marks |
| 2(b) Give a detail account on the Resource Conservation  | 10marks |
| 3(a) With a relevant example, explain the term Natural resources   | 12marks |
| 3(b) Enumerate four (4) Principles and goals of resources sustainability   | 8marks  |
| 4. Discuss in detail the economic, cultural, political and social considerations in resource conservation and management | 20marks |
| 5(a) Give a detailed definition of the term ecological sustainability  | 8marks  |
| 5(b) Examine four (4) key resource categories needed for human consumption   | 12marks |