



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2021_2 EXAMINATION

COURSE CODE: ESM426

COURSE TITLE: Biogeography

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.

1) Discuss the physical and chemical nature of marine ecosystem (25 marks)

2a). Arid lands can otherwise be referred to as what? (1 mark)

2b). Discuss the nature and pattern of vegetation in arid ecosystem (14 marks)

3) Discuss the concept of energy flow in an ecosystem. (15 marks)

4) Explain/define the following:

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| (i). territoriality | (ii). Intraspecific competition | (iii). Interspecific competition |
| (iv). ecological niche | (v). antibiosis or allelopathy | (vi). Commensalism |
| (vii). obligate symbiosis or mutualism | | (viii). Dispersal of population |

5) Explain ecosystem stability (15 marks)