



**National Open University of Nigeria**  
**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja**  
**Faculty of Science**  
**2021\_1 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

**Question 1**

In sufficient details, explain the concept of ecological succession (25 marks)

**Question 2**

Explain ecosystem stability (15 marks).

**Question 3**

Justify the rationale of primary gross productivity in plants in relation to energy flow (15 marks)

**Question 4**

- Write short note on population density (9 marks)
- Mention and explain types of population dispersal (6 marks)

**Question 5**

In general terms, discuss the grassland ecosystem (15 marks)