



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

**COURSE CODE: EMT 300**

**COURSE TITLE: Environment, Ecosystems and Man**

**CREDIT: 2 Units**

**TIME ALLOWED: 2 Hours**

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

- 1a. Explain the term Population Explosion (10 marks)
- 1b. List the physical factors affecting population growth (5 marks)
- 1c. Explain briefly the socio-economic factors that play important role in the growth of population. (10 marks)
  
- 2a. What do you understand by the term Ecosystem (4 marks)
- 2b. Explain the four biotic components of the ecosystem (11 marks)
  
- 3a. List the meteorological or climatic factors that influence an ecosystem (5 marks)
- 3b. What is food chain? (10 marks)
  
- 4a. Explain trophic Level (6 marks)
- 4b. Name the three types of food chain (3 marks)
- 4c. Explain Detritus Food Chain (6 marks)
  
- 5a. Draw three examples of aquatic food chains (3marks)
- 5b. Describe a Food Web (12 marks)