



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2020_2 EXAMINATIONS

COURSE CODE: EMT300

COURSE TITLE: Environment, Ecosystem and Management

CREDIT: 2Units

TIME ALLOWED: 2 Hours

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

- 1a). In ecological management, what do you understand as command and control management? **(5 marks)**
- b). Explain the concept of functional integration. **(5 marks)**
- c). What is overpopulation? **(2 marks)**
- d). State five effects of overpopulation. **(5 marks)**
- e). State and explain two measures to control overpopulation. **(6 marks)**
- f). Describe the edge effect. **(2 marks)**
- 2a). State Volterra-Gause principle. **(2 marks)**
- b). Mention five factors that distinguish terrestrial environment from aquatic environment. **(5 marks)**
- c). List and explain four abiotic factors of terrestrial habitat. **(8 marks)**
- 3a). State five objectives of eco-development **(5 marks)**
- b). Explain ecological agriculture. **(5 marks)**
- c). Enumerate five important uses of land. **(5 marks)**
- 4a). List five major zones in a marine habitat **(6 marks)**
- b). Discuss the significance of 'age at the time of first reproduction' in understanding the dynamics and evolution of a population. **(5 marks)**
- ci). What is an ecological niche? **(2 marks)**
- ii. Differentiate between an ecological niche and a habitat. **(2 marks)**
- 5ai). What is an ecosystem? **(2 marks)**
- ii. Discuss the abiotic factors of the ecosystem. **(5 marks)**
- bi). Define environmental planning according to International Union for Conservation of Nature. **(3 marks)**
- ii. Explain continuous planning. **(5 marks)**