



National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
SEPTEMBER, 2020_1 EXAMINATION

COURSE CODE: ESM 346

COURSE TITLE: Environmental Planning and Management

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.

- 1a) With relevant examples, discuss any four (4) human activities that have caused severe alterations in the ecosystems and the pollution of the environment. **(12marks)**
- 1b) Enumerate 5 adverse impact of transportation in the environment which requires adequate planning **(5marks)**
- 1c) Mention 3 examples of man-made activities that can lead to irreversible adverse effects on our environment **(3marks)**
- 1d) Define the concept of sustainable development and give reasons why the sustainable development of our resources is necessary **(5marks)**

- 2a) With the aid of suitable illustrations, explain Ernest W. Burgess' Concentric Model of urban growth **(9marks)**
- 2b) Distinguish amongst Iconic, Analogue and Symbolic Models **(6marks)**

- 3a. With the aid of suitable examples, discuss five (5) common types of solid waste in Nigeria **(10marks)**
- 3b. With relevant examples, distinguish between biodegradable waste and non biodegradable waste **(5marks)**

- 4a. Describe the natural and man-made/anthropogenic causes or sources of air pollution **(10marks)**
- 4b. What are the possible effects of air pollution on human health? **(5marks)**

- 5a. What is a drought? **(3marks)**
- 5b. Enumerate the economic, social and environmental effects of drought **(12marks)**