



National Open University of Nigeria
Plot 91, Cadastral Zone, Nuamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
2024 1 EXAMINATION

COURSE CODE: ESM311

COURSE TITLE: Noise and Air Pollution

CREDIT: 2 Units

TIME: 2:30 MINUTES

Instructions: 1. Attempt question Number one (1) and any other (2)

2. Question Number 1 is compulsory and carries 30 marks, while other questions carry equal marks of (20 marks) each

1. Discuss the mitigation strategies and controlling agencies and their roles of air pollution in Nigeria. **(30 Marks)**
- 2a. Discuss the differences between photochemical smog and industrial smog. **(10 Marks)**
- 2b. List four (4) impact of smog on air quality. **(10 Marks)**
- 3a Explain the chemical reactions involved in acid rain formation **(10 Marks)**
- 3b. Outline impacts of acid rain on ecosystems. **(10 Marks)**
- 4a. Discuss the key steps involved in implementing an effective waste management system. **(10 Marks)**
- 4b. Outline limitations of effective waste management system in Nigeria. **(10 Marks)**
- 5a. Explain the role of sound insulation in mitigating noise pollution. **(10 Marks)**
- 5b. outlines the principles used in sound insulation for buildings. **(10 Marks)**