



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja
FACULTY OF SCIENCES
DEPARTMENT OF ENVIRONMENTAL SCIENCE
2023_1 POP EXAMINATION.

COURSE CODE: ESM311

TIME: ALLOWED: 2HRS

COURSE TITLE: NOISE AND AIR POLLUTION

CREDIT UNIT: 2

Instructions: Attempt question Number one (1) and any other two. Question number 1 is compulsory and carries 30 marks, while the other questions carry equal marks of (20mks) each. Present all your points in coherent and orderly manner

1. With relevant examples, discuss the states of atmospheric pollution in each of the six Geo-Political Zones in Nigeria **(30 marks)**

2a. In ONE paragraph differentiate between air pollution and air pollutants **(5 marks)**

2b. Discuss the varied classes of pollutants in the atmosphere **(15 marks)**

3. Give an explanatory note on any four of the following:

a. Ozone, O₃ **(5marks)**

b. Carbon Monoxide, CO **(5marks)**

c. Chlorofluorocarbons, CFCs: **(5marks)**

d. Nitrogen Oxides, NO_x: **(5 marks)**

e. Hydrocarbons and Volatile Organic Carbons (VOCs) **(5 marks). Total (20marks)**

4. Discuss in detail any TWO of the activities and mandates of the coordinating bodies of the Nigerian Environment **(20marks)**

5a. What is noise pollution **(5marks)**

5b. With relevant examples discuss the varies types of noise pollution known to you **(15marks).**