



NATIONAL OPEN UNIVERSITY OF NIGERIA
14/16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
JUNE/JULY EXAMINATION

COURSE CODE: ESM 311

COURSE TITLE: NOISE AND AIR POLLUTION

TIME ALLOWED: 2 Hours

INSTRUCTION: Answer any four questions

Q1

- (a) Discuss the effects of air pollution on weather, climate and atmospheric processes (8 marks)
- (b) Outline the functions of the Federal Environmental Protection Agency (FEPA) as spelt out by the decree (10 marks)

Q2

- (a) What is noise pollution? (3 marks)
- (b) Describe 5 types of noise pollution (10 marks)
- (c) What are the effects on noise pollution on human health? (5 marks)

Q3

- (a) The Delta-Bayelsa region is the highest contributor air pollution in Nigeria. Explain briefly the possible sources of air pollution in this region of the country. (8 marks)
- (b) Explain briefly the classification of air pollutants. (10 marks)

Q4

- (a) Enumerate the occupational strategies for the prevention of Noise-Induced Hearing Loss (NIHL) (10 marks)

Q5

- (a) Discuss the possible effects of air pollution on human health (8 marks)
- (b) Describe the specific effects of the following pollutants on human and the environment:
 - (i) ozone (ii) SO₂ (iii) nitrogen oxides (iv) CO (v) aerosols (10 marks)

Q6

- (a) Distinguish between 'sound' and 'noise' (6½ marks)
- (b) (i) How is sound measured? (3 marks)
- (ii) Mention any 4 activities and the associated sound levels (8 marks)
- (b) Enumerate 5 approaches to motor vehicle noise control. (7½ marks)