



**NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
MARCH/APRIL 2015 EXAMINATION**

SCHOOL OF SCIENCE AND TECHNOLOGY

COURSE CODE: ESM 311
COURSE TITLE: NOISE & AIR POLLUTION
TIME- 2 HOURS

INSTRUCTION - ANSWER ANY FOUR QUESTIONS

Q1

- (a) Enumerate the occupational strategies for the prevention of Noise-Induced Hearing Loss (NIHL) (10 marks)
- (b) Enumerate 5 approaches to motor vehicle noise control. (7½ 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) Highlight and explain briefly 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: (10 marks) (i) ozone (ii) SO₂ (iii) nitrogen oxides (iv) CO (v) aerosols

Q4

- (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)

Q5 (a) Explain briefly 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)

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)