

**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 occupationalstrategies 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)