SCHOOL OF SCIENCE AND TECHNOLOGY October, 2013 Examination

Course Code:	ESM 311	Time Allowed:	2 Hours

Course Title: NOISE ANDAIR POLLUTION

Instruction: Answer any four questions

1(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. marks)

(8

- (b) Explain briefly the classification of air pollutants. (10 marks)
- 2.(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: (10 marks)

(i) ozone

- (ii) SO₂
- (iii) nitrogen oxides
- (iv) CO
- (v) aerosols
- 3.(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)
- 4. (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)

5. (a) What is noise pollution?

(3

marks)

(b) Describe 5 types of noise pollution

(10

(c) What are the effects on noise pollution on human health? (5 marks)

- 6. (a) Enumerate the occupationalstrategies for the prevention of Noise-Induced Hearing Loss (NIHL) (10 marks)
- (b) Enumerate 5 approaches to motor vehicle noise control. (7½ marks)