

National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja Faculty of Science APRIL, 2019_1 EXAMINATIONS

COURSE CODE: ESM 311

COURSE TITLE: AIR AND NOISE POLLUTION.

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

Instruction: Attempt question number ONE (1) and any other THREE (3) questions. Question number one (1) carries 25 marks, while the other questions carry (15) marks each.

act of 1995 1b) Define the following	ir pollution that led to the establishmen	nt of the environmental (12marks) (5marks)
(i) Air pollutant(ii) Air pollution	(2marks) (3marks)	
1c) Identify sources of air pollution		(8marks)
2a) What is noise induced hearing	loss?	(2marks)
2b) what are the effects of noise pollution on the environment?		(4marks)
2c)List the classes of pollutant 2d) Attempt a classification of air pollutants according to their chemical co		(3marks)
2d) Michipi a classification of all p	onutains according to their enemical ec	. (6marks)
3a) How is sound measured?		(1mark)
3b)Discuss the effects of noise on Human health		(5marks)
3c) Identify the dBA level and associated sound description		(9marks)
dB	Sound description	
0		
25		
35		
55		
70		
85		
100		
120		
140		
4a) What is noise?		(2marks)

4b) Discuss various sources of natural and man-made pollutants.

4c) Identify the effects of air pollution on the atmosphere.

(9marks)

(4marks)

5a) Identify specific effects of the following pollutants (11marks)

SO₂ (3marks)
NO_x (4marks)
CO effect (1mark)
Particulate matters (aerosols) (3marks)

(5b) Outline the functions of FEPA as spelt out by FEPA decree. (4marks)