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NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja

FACULTY OF SCIENCES

DEPARTMENT OF ENVIRONMENTAL SCIENCE NOVEMBER, EXAMINATION, 2021_2

COURSE CODE: ESM311 TIME: ALLOWED: 2HRS

COURSE TITLE: NOISE AND AIR POLLUTION

CREDIT UNIT: 2

Instructions: Attempt question Number one (1) and any other two. Question number 1 is compulsory and carries 30 marks, while the other questions carry equal marks of (20mks) each. Present all your points in coherent and orderly manner

- **1.** With relevant examples, discuss the states of atmospheric pollution in each of the six Geo-Political Zones in Nigeria (30 marks)
- 1a. Explain the term air pollution (5marks)
- 1b. Attempt a classification of air pollution using suitable examples (15 marks).
- 1c. Identify evidences of Nigeria's experience with atmospheric pollution (10 marks)
- 2a. What are air pollutants (4marks).
- 2b. List 5 forms in which air pollutants can exist (2marks)
- 2c. Distinguish between the followings:
 - i. Primary and Secondary pollutants (5marks)
 - ii. Natural and Anthropogenic pollutants (5marks)
- 2d. List any 2 chemicals in the air and any 1 chemical reaction that take place in the air (4marks).
- 3a. Based on various criteria, attempt a classification of air pollutants (10marks).
- 3b. Distinguish between the 2 sources of air pollution with examples (5mark)
- 3c. Identify any of the natural and anthropogenic sources of major carbon-containing compounds (5marks)
- 4a. Discuss briefly the 2 main global problems caused by air pollution. (6marks)
- 4b. in which ways are the following affected by air pollution (12marks)
 - i. Sense of smell
 - ii. Vegetation
 - iii. Materials and cultural properties
- 4c. Name 2 effects of chlorofluorocarbons (2marks).
- 5a. Decree 58 of 1988 provides for the statutory responsibilities for FEPA. What are they (5marks)
- 5b. Examine any 10 National Coordinating bodies in environmental protection and conservation of national resources that have been put in place in Nigeria (10marks).

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	5c. A number of legislations and regulations have been put in place in Nigeria towards integrating environmental concerns into development. Make a list of them (5marks).
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