

**National Open University of Nigeria**

**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja**

**Faculty of Science**

**NOVEMBER, 2018 EXAMINATIONS**

**COURSE CODE: ESM 311**

**COURSE TITLE: NOISE AND AIR POLLUTION**

**CREDIT: 2 Units**

**TIME ALLOWED: 2 Hours**

**INSTRUCTION: Answer Question ONE (1) and any other THREE (3) Questions**

1a) What is Air Pollution? (**2mks)**

1b) What are Air Pollutants? (**2mks)**

1c) Discuss the Man-made (anthropogenic) sources of air pollution (**10mks)**

1d) List the classes of pollutants we have under the following

1. According to chemical composition **(6mks)**
2. According to physical state **(3mks)**
3. According to the manner in which they reach the atmosphere (**2mks)**

2a) Explain the concept of Ozone (O3) as a pollutant. **(3mks)**

2b) Identify evidences of Nigeria’s experience with atmospheric pollution. (**12mks)**

3a. Discuss briefly the two main global problems caused by air pollution. (**4mks)**

3b) In which ways are the followings affected by air pollution?

1. Sense of smell
2. Vegetation
3. Material and Cultural properties (**9mks)**

3c) Name two effects of chlorofluorocarbons**. (2mks)**

4a) Define the term noise (**1mk)**

4b) What is Noise Pollution? **(2mks)**

4c) Discuss any six types of Noise Pollution (**12mks)**

5a) Highlight five of the effects of noise on human health (**5mks)**

5b) Explain any five occupational Strategies for Prevention of NIHL (**10mks)**