

**National Open University of Nigeria**

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

**Faculty of Science**

**APRIL/MAY, 2019 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

1a) What are Air Pollutants? **(2marks)**

1b) Attempt a classification of air pollution using suitable examples. **(2marks)**

1c) Identify evidences of Nigeria’s experience with atmospheric pollution. **(5marks)**

1d) List 4 forms in which air pollutants can exist? (**2marks)**

1e) List the Man-made (anthropogenic) sources of air pollution **(3marks)**

1f) List the classes of pollutants we have under the following:

1. Chemical composition:
2. Physical state
3. The manner in which they reach the atmosphere **(11marks)**

2a) Decree 58 of 1988 provides for the statutory responsibilities for FEPA. What are they?

(**5marks)**

2b) Examine any 10 National Coordinating bodies in environmental protection and conservation

of national resources that have been put in place in Nigeria. **(10marks)**

3a) Define the term noise **(1mark)**

3b) What is Noise Pollution? **(2marks)**

3c) Discuss any six types of Noise Pollution **(12marks)**

**4**a) Explain the concept of Ozone (O3) as a pollutant. **(3marks)**

4b) Name two effects of chlorofluorocarbons. **(2marks)**

4c) Highlight five of the effects of noise on human health **(5marks)**

4d) Explain any five occupational Strategies for Prevention of NIHL **(5marks)**

5a) Differentiate between noise and sound. **(5marks)**

5b)Mention any 5 activities and their sound levels. **(5marks)**

5c) Mention any 5 activities and their noise levels in the environment. **(5marks)**