**

**NATIONAL OPEN UNIVERSITY OF NIGERIA**

Plot 91, Cadastral Zone, NnamdiAzikwe Expressway, Jabi, Abuja

**FACULTY OF SCIENCES**

**JULY EXAMINATION2017**

**COURSE CODE: ESM311 TIME: ALLOWED: 2:30mins**

**COURSE TITLE: NOISE AND AIR POLLUTION CREDIT UNIT: 2**

**Instructions: 1. Attempt question Number one (1) and any other three (3).**

**2. Question number 1 is compulsory and carries 25 marks, while the other questions carry equal marks (15) each**

 **3. Present all your points in coherent and orderly manner**

**1.** With relevant examples, discuss atmospheric pollution under the following geo-political zones in Nigeria: a. South-South, b. South-West, c. South-East, d. North-West, e. North-East, f. North-Central **(25 marks)**

**2a.** Differentiate between air pollution and air pollutants**(6 marks)**

**2b**. Discuss the varied classes of pollutants in the atmosphere**(9 marks)**

**3.** Give an explanatory note on any the following:

a. Ozone, O3 (**3 marks)**

b. Carbon monoxide, CO **(3 marks)**

c. Chlorofluorocarbons, CFCs: **(3 marks)**

d. Nitrogen Oxides, NOx: **(3 marks)**

e. Hydrocarbons and Volatile Organic Carbons (VOCs)**(3 marks) Total (15 marks)**

**4.** Discuss in detail any three of the coordinating bodies of Nigerian environment **(10 marks)**

4b. Give account of the term Nigeria environment **(5 marks)**

**5a.** What isnoise pollutions **(5 marks)**

**5b**. With relevant examples discuss the types of noise pollution **(10 marks)**