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**NATIONAL OPEN UNIVERSITY OF NIGERIA**

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

**FACULTY OF SCIENCES**

**Department of Environmental Sciences**

**July 2018\_ Examinations**

**COURSE CODE: ESM317 TIME: ALLOWED: 2HRS**

**COURSE TITLE: LAND AND WATER POLLUTION CREDIT UNIT: 2**

**Instructions: *Answer question one(1) and any other three (3) questions;*Question number 1 is compulsory and carries 25 marks, while the other questions carry equal marks (15) each**

1a. Define the term renewable resources with relevant examples. **5marks**

1b.With relevant examples distinguish renewable and non-renewable resources. **10marks**

1c. Identify and discuss in details any three reasons for conservation of resource. **10marks**

2.Recycling is the collection, processing, and reuse of waste materials that would otherwise be thrown away. Discuss this statement with a peculiar case study in your environment. **15 marks**

3. Define the term environmental pollution. With examples, distinguish between point and non-point sources of water pollution. **15 marks**

4.Discuss the classification of water pollution under municipal, industrial, and agricultural. **15 marks**

5. Discuss the effects of water pollution on any five of the following:

a. Waterborne Infectious Diseases: **(3marks)**

b. Nutrient Pollution: **(3marks)**

c. Chemical Contamination: **(3marks)**

d. Mining: **(3marks)**

e. Marine Debris: **(3marks)**

f. Thermal Pollution: **(3marks)**