**

**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**University Village, Plot 91 Cadastral Zone, NnamdiAzikiwe Express Way, Jabi - Abuja.**

**FACULTY OF SCIENCES**

**ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT**

**JANUARY/FEBRUARY 2018EXAMINATIONS**

**COURSE CODE: ESM 322 TIME ALLOWED: 2HRS**

**COURSE TITLE: WATER AND WASTE WATER MANAGEMENT CREDIT UNIT:** 2

**Instruction:** Attempt question number one (1) and any other three (3).

1. Identify and discuss five the attributes of water bodies**(25 marks)**
2. (a) List five reasons that justify waste water management. **(5marks)**

(b) Highlight five fresh water pollutants and their sources. **(10marks)**

**3.** Discuss the efficient options in the secondary treatment of wastewater. **(15marks)**

4. What is primary treatment with respect to on-site sewage disposal system? **(15marks)**

**5.**What are the symptoms and the vehicle of transmission of water borne diseases?.**(15marks)**