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NATIONAL OPEN UNIVERSITY OF NIGERIA

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

FACULTY OF SCIENCES DEPARTMENT OF ENVIRONMENTAL SCIENCE 2023 1 POP EXAMINATION...

COURSE CODE: ESM 317

DURATION: 2 HRS CREDIT UNIT: 2

COURSE TITLE: LAND AND WATER POLLUTION

INSTRUCTION: Attempt question Number one (1) and any other two. Question number 1 is compulsory and carries 30 marks, while the other questions carry equal marks of (20mks) each. Present all your points in coherent and orderly manner

- **1.** (a) Mention and 3 factors that are responsible for high rate of deforestation in Nigeria. **3mks**.
 - (b) Explain in details what is meant by 'Pollution' 9mks
 - (c) Explain how can a water source be thermally polluted 9mks
 - (d) In one sentence and example, what is soil pollution. 2mks
 - (e) Briefly explains the measures to land pollution in Nigeria. 7mks
- 2. In simple and clear terms, justify the essence of Recycling in the practice of modern waste management. 20mks.
- **3.** (a) Justify why it is important to treat wastewater discharged from homes and commercial establishments before disposal **5mks**
 - (b) Briefly discuss the stages of treating the above-mentioned wastes. 10mks
 - (c) What options are there for controlling industrial wastewater? 5mks
- 4. (a) Briefly explain how recycling be done. 8mks
 - (b) Discus on the manufacture of steel using recycled materials. 12mks.
- 5. Give a detail classification on the varied ways pollutants are classified. 20mks