



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja
FACULTY OF SCIENCES
DEPARTMENT OF ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT
2025_2 EXAMINATIONS

COURSE CODE: ESM 403

COURSE TITLE: ENVIRONMENTAL PERCEPTION

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

Instruction: Attempt question number ONE (1) and any other TWO (2) questions. *Question number one (1) carries 30marks, while the other questions carry (20) marks each.*

- 1a) Elucidate on the major characteristics of the Lithosphere **(16marks)**
- 1b) In a tabular manner, distinguish between Transduction and Neural processing **(10marks)**
- 1c) List the composition of the atmosphere **(4marks)**

- 2a) Enumerate the consequences of the overuse of groundwater. **(2 marks)**
- 2b) Enumerate the impact of mineral exploitation on the lithosphere. **(10 marks)**
- 2c) Discuss the main features of Mario Molina and Sherwood Rowland (1974) hypothesis that ozone in the stratosphere is being depleted. **(8marks)**

- 3a) Highlight the major human interaction in the hydrosphere which has serious implications on the hydrologic cycle. **(4 marks)**
- 3b) Explain the concept of Environmental Determinism **(16 marks)**

- 4a) List the various sources of water in the hydrosphere **(4marks)**
- 4b) Discuss the early trends of waste perception and management **(16mks)**

- 5a) Highlight the ways in which man's intervention depletes freshwater resources **(5marks)**
- 5b) Describe the primary and secondary effects of agriculture on the lithosphere. **(3marks)**
- 5c) Write short notes on the following schools of thoughts **(12marks)**
 - i. Environment Determinism
 - ii. Environmental Possibilism
 - iii. Environmental Probabilism