



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**Plot 91, CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY, JABI, ABUJA**  
**FACULTY OF HEALTH SCIENCES**  
**DEPARTMENT OF ENVIRONMENTAL HEALTH SCIENCE**  
**2024 1 EXAMINATION**

**COURSE CODE: EHS503**

**COURSE TITLE: WATER/AIR QUALITY MANAGEMENT**

**COURSE UNITS: 2 CREDIT UNITS**

**TIME ALLOWED: 1½ HOURS**

**TOTAL MARKS: 70 MARKS**

**INSTRUCTION: ATTEMPT ALL QUESTIONS**

- 1a. Explain the term 'Precipitation' (5marks)
- 1b. Describe briefly the processes used for supplementary removal of residual suspended solids from effluents of chemical treatment process of waste water (15marks)
- 1c. List the factors that determine the health impact of air pollution (5marks)
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- 2a. Enumerate the data requirement of dispersion model (10marks)
- 2b. Define Land Use Regression (LUR) (5marks)
- 2c. State the three (3) strengths of dispersion model (6marks)
- 2d. List the categories of designated uses of water of body (4marks)
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- 3a. List the sources of contamination in water (5marks)
- 3b. Define Air Quality Index (AQI) (5marks)
- 3c. Highlight the methods of measuring air pollution (10marks)