



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI - ABUJA**  
**FACULTY OF HEALTH SCIENCES**  
**DEPARTMENT OF ENVIRONMENTAL HEALTH SCIENCE**  
**2025\_2 EXAMINATIONS**

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**COURSE CODE: EHS503**

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

**COURSE UNITS: 2 CREDIT UNITS**

**TIME ALLOWED: 1 ½ HOURS**

**TOTAL SCORE: 70 MARKS**

**INSTRUCTION: ANSWER ALL QUESTIONS**

1(a) Define the following Terms

- 1) Community Managed Water Systems **10 marks**
- 2) Contaminant
- 3) Drinking Water
- 4) Drinking Water System
- 5) Drinking Water Quality Control

(b) Highlight ten (10) water quality principles **10 marks**

(c) Enumerate the four (4) categories of water uses **4 marks**

2(a) Explain the term routine monitoring **9 marks**

(b) Air pollutants are found in the form of solid particles, liquid droplets or gases, and many of them are created by human activity and natural processes Discuss. **10 marks**

(c) List the issues to be considered in water resource protection and development **6 marks**

3(a) Define the following terms

- 1) Air pollutants
- 2) Aerosols
- 3) Ambient air
- 4) AQI
- 5) Emissions
- 6) EPA or U.S. EPA **6 marks**

(b) Solid material that is removed from wastewater is called sludge, briefly explain sludge treatment. **5 marks**

(c) Write short on waste water treatment processes **10 marks**