



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY, JABI, ABUJA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF ENVIRONMENTAL HEALTH SCIENCE
2024_2 EXAMINATION

COURSE CODE: EHS503

COURSE TITLE: WATER/AIR QUALITY MANAGEMENT

COURSE UNITS: 2 CREDIT UNITS

TIME ALLOWED: 1 ½ HOURS

INSTRUCTION: ATTEMPT ALL QUESTIONS

- 1a. Describe the minimum requirement for water sampling and testing **(10marks)**
- 1b. Explain Hazardous Air Pollutants (HAPs). List examples of HAPs **(5marks)**
- 1c. Describe Neutralization **(4marks)**
- 1d. Briefly explain the standard for drinking water quality **(6marks)**

- 2a. Describe the four (4) types of process affecting air pollution levels **(8marks)**
- 2b. State the importance of sludge treatment **(4marks)**
- 2c. Briefly explain preliminary waste water treatment **(6marks)**
- 2d. Define membrane filtration. List three (3) examples of membrane filtration techniques **(7marks)**

- 3a. List the tools for air quality assessment **(6marks)**
- 3b. Write out the equation for overall emissions from a source or activity **(4marks)**
- 3c. Explain the term 'Water quality' **(2marks)**
- 3d. Describe the types of air pollutant. Give three (3) examples for each type **(8 marks)**