

**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway Jabi, Abuja**  
**FACULTY OF HEALTH SCIENCES**  
**2023\_2 EXAMINATIONS\_\_**

---

**Course Code: EHS 503**

**Course Title: Water/Air Quality Management**

**Course Unit: 2 Credit Units**

**Time Allowed: 1 ½ Hours**

**Total Score: 70 Marks**

**Instruction: Answer All the Questions**

1

- a) Enumerate the importance of developing water quality objectives (5 marks)
- b) What are drinking water quality standards? (6 marks)
- c) Discuss the significance of setting up the UN Watercourses Convention (6 marks)
- d) What important step needs to be put in place before starting a water quality monitoring programme? (3 marks)

2.

- a) What method can be used to ensure behavioral change among beneficiaries of an improved water supply and sanitation systems (3 marks)
- b) Describe the methods by which wells can be protected? (7 marks)
- c) Enumerate the specifications for construction and best practices stipulated by federal Ministry of Environment for drinking water systems (5 marks)
- d) Describe the minimum requirement for water sampling and testing (10 marks)

3.

- a) What is air quality index (3 marks)
- b) Enumerate the three environmental management principles on which government policies including those of air quality management are based (6 marks)
- c) Describe the four types of processes that affect air pollution levels (8 marks)
- d) Enumerate the differences between primary and second air pollutants. Give three examples for each type of pollutant (8 marks)