

**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**UNIVERSITY VILLAGE, PLOT 91 CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESS WAY, JABI - ABUJA.**

**FACULTY OF SCIENCES**

**DEPARTMENT OF PURE AND APPLIED SCIENCES**

**JULY 2018 EXAMINATION**

**COURSE CODE: CHM 314**

**COURSE TITLE: ENVIRONMENTAL CHEMISTRY**

**COURSE UNIT: 2**

**TIME: 2 HOURS**

**INSTRUCTION: Question one is compulsory. Answer question one and**

**any other three questions.**

**QUESTIONONE**

1a) Write a short note on the nitrogen cycle.8 marks

1b) Discuss the inclusion of ozone as an air pollutant.8 marks

1c) Mention and explain the types of solid waste. 6 marks

1d) Highlight any twosources of taste and odour in water.2 marks

1f) State the use of Atomic Absorption Spectroscopy in Environmental Chemistry.1 mark

**QUESTION TWO**

2a) Discuss briefly turbidity.11 marks

2b) Mention one significance of turbidity in public water supplies,and applications of turbidity data. 4 marks

**QUESTION THREE**

Discuss with accompanying chemical equation, the ban of chlorofluorocarbons (CFCs) in the production of refrigerators, aerosols, foams and other industrial products.15 marks

**QUESTION FOUR**

List the sources and discuss the effects of SO2 in the environment.15 marks

**QUESTION FIVE**

Write short note on the following:

Sanitary Landfill. 7 marks

Incineration 5 marks

Recycling 3 marks