

**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**14/16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS**

**SCHOOL OF SCIENCE AND TECHNOLOGY**

**JUNE/JULY EXAMINATION**

**COURSE CODE: CHM 314**

**COURSE TITLE: Environmental Chemistry**

**TIME ALLOWED: 2 hours**

**INSTRUCTION: Answer 4 questions only**

1. Thestandardmethodof sewage treatment comprisesfourstages of treatment describe the processes involved in each of these stages.(17½marks)

 2 Discuss the physical parameters that are relevant to the chemistry and analysis of water andhow they aremeasured.(17½marks)

3 (a) Explain the term chromatography

(b) Discuss the various classes of chromatography giving examples.(17½marks)

4Write briefly on the following processesoftheNitrogenCycle

1. Ammonification
2. Nitrification
3. Assimilation

d. Denitrification (17½marks)

5.Thewatercycletransferssun’sheatenergytovariousplaces,movescontaminationorpollutionroundtheplanetand is connected to everylivingthing”. Expatiate.

(17½marks)

6. Discuss the following aquatic pollutants

1. Eutrophication
2. Thermal Pollution
3. Crude Oil
4. Sewage

(17½marks)