

NATIONAL OPEN UNIVERSITY OF NIGERIA 14-16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS SCHOOL OF SCIENCE AND TECHNOLOGY JANUARY/FEBRUARY 2013 EXAMINATION

PROGRAMME: Environmental Science and Resource

Management

COURSE CODE: ESM 322

COURSE TITLE: WATER AND WASTE WATER MANAGEMENT

COURSE UNIT: 2 units.

TIME: 2hours 30 minutes.

INSTRUCTION: Answer any 4 questions.

- 1. Explain why recycling and reuse of waste water can be supplementary to existing water sources. (18 marks)
- 2. Explain briefly each of these parameters in relation to a water body:
 - (a) Alkalinity (6 marks)
 - (b) Turbidity (6 marks)
 - (c) Temperature (6 marks)
- 3. Discuss the importance of organic matter in the cycling of nutrients in aquatic systems.(18 marks)
- 4. Discuss 5 main pollutants of freshwater (18 marks)
- 5. List and describe the main techniques for treating waste water. (18 marks)
- 6. List the various types of waste waters and briefly describe any 2 of them. (18 marks)