# OBAFEMI AWOLOWO UNIVERSITY, ILE-IFE, NIGERIA FACULTY OF SCIENCE

#### DEPARTMENT OF MICROBIOLOGY

B.Sc. (Microbiology) Degree Examination

SEMESTER: Harmattan 201012011 session DATE July 29. 2011 COURSE CODE: MCB 409 TIME 2<sup>12</sup> Hours

**COURSE TITLE:** Aquatic Microbiology

INSTRUCTION: Answer Al I questions with each section in a separate booklet

## **Section A**

- Why do you need to treat water prior to consumption? Give details of how a stream water that is already dammed can be treated and disinfected to render it safe for drinking
- 2. Define ThOD, COD, BODu, and BOD5. What is sewage? Compare sewage treatment using trickling filter method with using stabilization basin and septic tank techniques.

#### Section B

3. Write briefly **on** the unique features that make water **habitat** suitable for microorganisms.

ESERVE

4 Write explicitly **on** the hydrological cycle and **its** role in replenishing the earth's fresh water reservon

### Section C

- 5 With the aid of a well labelled DIAGRAM ONI Y. describe the general scheme for the detection of coliforms in water.
- 0. What are the standards of bacteria quality applicable to supplies of drinking water
- 7. Mention the advantages and disadvantages involved in the use of membrane filtration technique for the enumeration of water samples.