



**OLUSEGUN AGAGU UNIVERSITY OF SCIENCE AND TECHNOLOGY,
OKITIPUPA
SCHOOL OF SCIENCE
DEPARTMENT OF BIOLOGICAL SCIENCES**

SECOND SEMESTER EXAMINATION, 2019/2020 ACADEMIC SESSION

Course Title: Environmental Microbiology Course code: MCB 304: Course unit: 2

TIME ALLOWED: 2 HOURS

Instruction: Answer any four (4) questions in all, at least One (1) question from each Section

SECTION A

- ✓ 1a. Itemize the properties of water pollution indicators
- b. Explain why *Clostridium* and *Pseudomonas* are not acceptable as water pollution indicators.
- 2. Explain the steps involved in artificial purification of water (Flow Chart required)

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SECTION B

- ✓ 3a. Briefly discuss the classification of water quality.
- b. Enumerate the effects of raw sewage discharge.
- c. State the importance of proper liquid waste disposal
- ✓ 4a. State the reasons for sewage treatment
- b. In a tabular form, state the differences between Chemical Oxygen Demand and Biological Oxygen Demand.
- c. State the objectives of water treatment

SECTION C

- ✓ 5a. Briefly describe different regions recognized in a lake based on sunlight and temperature.
- b. Describe marine environment/water including its classification based on habitat.
- 6a. Write short notes on the classification of aquatic organisms based on their zones of occurrence
- b. Explain how the following factors affect the distribution of microorganisms in aquatic environment (i) Temperature (ii) Salinity (iii) Turbidity (iv) Hydrogen-ion Concentration.