OLABISI ONABANJO UNIVERSITY, AGO - IWOYE DEPARTMENT OF MICROBIOLOGY

B. Sc (Microbiology) 2018/2019 HARMATTAN SEMESTER EXAMINATION

Course code and title: MCB407 - Industrial Microbiology. Date: 24th April 2019

Instruction: Answer question 1 and any other three (3) questions. One question must be answered from each section.

Time Allowed: 1hr 40mins

Question 1

- a. Give instances when microorganisms are applied for providing services for mankind than for the production of tangible products.
- b. Mention five alcohol producing microorganisms.
- c. Highlight the factors affecting bioremediation of hydrocarbons.

SECTION A

- 2a. Discuss the qualities a microorganism must possess to be useful for industrial fermentation processes.
- b. What is the relationship between industrial Microbiology and Biotechnology?
- Without considering the genetic constitution, identify various groups into which microorganisms that are relevant in industrial microbiological processes may be placed.

SECTION B

- 4. Discuss the commercial production of
 - (i) Citric acid
 - (ii) Wine
- 5a. Explain the different sources of nutrient required by microorganisms
- b. Write concisely on:
 - (i) Fermentor
 - (ii) Batch culture
 - (iii) Continuous culture

SECTION C

- 6. Discuss biogenesis of petroleum as it applies to microbiology.
- 7. Explain biodeterioration and biotransformation of hydrocarbons.