

ELIZADE UNIVERSITY, ILARA-MOKIN, ONDO STATE, NIGERIA

BASIC & APPLIED SCIENCES BIOLOGICAL SCIENCES FIRST SEMESTER EXAMINATION 2020/2021 ACADEMIC SESSION

COURS	SE CODE:	MCB 403

COURSE TITLE: Petroleum Microbiology

COURSE UNIT(S): 2 UNITS

DURATION: 2 hours

HOD'S SIGNATURE

NAME:	MAT.No:

INSTRUCTIONS: Answer any 3 questions

- Discuss in details Microbial degradation of petroleum and petroleum products under aerobic and maerobic condition.
 - Describe concisely the role of microorganisms in petroleum industry using two organisms you know
- 2. Describe how you will use microorganism for the recovery of uranium and copper
 - b. List and explain the ecological factors affecting the efficiency of bioleaching
 - c. Brielly discuss the role of the following on petroleum bio-refining
 - Genetic Engineering
 - Protein Engineering
 - Biotcatalysis
 - Extremophilic micro-organisms
- 3. Discuss environmental and social issues associated with petroleum exploration and mention 10 by-products of petroleum
- 4. Explain in details desulfurization
 - b. Discuss in details factor(s) affecting oil recevery
- 5. Discuss oil ailing pond
 - b. Exp ain bio-densification of mature fine tailings
 - c. List and explain the 6 microbial effects on tailing properties