



FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF LIFE SCIENCES
DEPARTMENT OF MICROBIOLOGY
SECOND SEMESTER EXAMINATION, 2017/2018 SESSION

COURSE CODE: MCB 522 (2 UNITS)
COURSE TITLE: PETROLEUM MICROBIOLOGY

Instruction: Answer any three (3) questions in all.

Time: 1½ Hours

1. Discuss the microbiology of methanogenesis
- 2(a). With the aid of schematic diagram describe the process of dissimilatory sulphate reduction.
- 2(b). Give two reasons why sulphate reducing bacteria are often detected only when fuel is heavily contaminated?
- 3(a). Enumerate five factors each on: Causes, Effects, and Control of oil spills
- 3(b). Explain two methods in which oxygen can be supplied to microorganisms in oil contaminated site.
- 4(a). Define biostimulation
- 4(b). With the aid of a diagram explain how the feasibility of bioremediation depends on the interactions between substrate and organisms in the environment?
5. Discuss how you would use hydrocarbonoclastic bacteria to search for oil and gas in the Niger Delta area of Nigeria.