

OLABISI ONABANJO UNIVERSITY

FACULTY OF SCIENCE

DEPARTMENT OF MICROBIOLOGY

2016/2017 HARMATTAN SEMESTER EXAMINATION

COURSE TITLE: BACTERIOLOGY

CODE: MCB 315

TIME: 1HR : 30MINS

INSTRUCTION: ATTEMPT QUESTION ONE AND ANY OTHER TWO

1a. Highlight the step by step procedure for the preparation of 400ml of nutrient agar (28g/l)

b. With the aid of diagrams, discuss the following mode of reproduction in bacteria giving specific examples.

i. Binary fission ii. Fragmentation iii. Budding iv. Formation of Conidiophores

2a. Draw a well labeled typical bacterial cell.

b. Highlight five of the components in (a) above and state their functions.

3a. With the aid of a diagram, explain the phases involved in the life cycle of bacteria

b. Highlight and explain the different factors that can influence the growth of bacteria.

4a. Write extensively on the cellular morphology of bacteria.

b. Describe the step by step procedures in gram staining technique.

