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FACULTY OF SCIENCE,

DEPARTMENT OF MICROBIOLOGY,

2017/2018 HARMATTAN SEMESTER EXAMINATION

MCB 315: BACTERIOLOGY

INSTRUCTIONS: ANSWER THREE QUESTIONS, ONE FROM EACH SECTION

TIME: 1HR. 30 MINS.

SECTION A

1. As it relates to bacteriology, briefly explain the following terms: A. Taxonomy
B. Classification C. Identification and D. Nomenclature
2. Using 12 features, what are the differences between Prokaryotes and Eukaryotes?

SECTION B

- 3a. Draw the bacterial growth curve and in detail, discuss the activities that occur during the the
LOG PHASE.
- 3b. Write on the following giving formula where necessary:
i. Growth, ii. Pure culture iii. Growth rate iv. Number of generation, v. Generation
time
- 4a. Differentiate between Sterilization and Disinfection.
- 4b. How long will it take a single bacteria cell to form 1,000,000 cells if it had a generation
time of 30 minutes?
- c. Giving at least one example, briefly write on the following:
i. Selective media, ii. Differentia media, iii. Enrichment media,

P. T. O.

SECTION C

- 5a. Write extensively on bacterial antibiotics susceptibility testing
- 5b. Explain three (3) methods that can be used in bacterial identification
6. Explain in details how you would carry out the following biochemical tests in the laboratory:
- Bile solubility test
 - Citrate utilization test
 - Sugar fermentation test
 - Catalase test

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