



**ELIZADE UNIVERSITY,
ILARA-MOKIN, NIGERIA**

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

FIRST SEMESTER EXAMINATION

2019/2020 ACADEMIC SESSION

COURSE CODE: MCB 301

COURSE TITLE: BACTERIOLOGY

DURATION: 2 HOURS

HOD's SIGNATURE

NAME:.....

MAT.

No:.....

INSTRUCTIONS: ANSWER ANY 3 QUESTIONS.

QUESTIONS

SECTION A

1. a) Using a simple annotated diagram, explain the five regions of a bacterium cell.
b) Explain how to identify Gram negative bacteria. (20marks)
2. a) Discuss any four (4) benefits of normal flora.
b) How is nitrogen made available for bacteria? (20marks)
3. a) Discuss briefly the epidemiology of *Salmonella* and *Shigella*.
b) List ten (10) biochemical tests you will use to identify the bacteria in 3a above. (20marks)
4. a) Briefly discuss the treatment and control of infectious diseases in terms of personal hygiene, environmental hygiene, use of drugs and quarantine. (20marks)
5. a) List the various molecular characteristics used for classifying bacteria.
b) What is the percentage ratio of guanine and cytosine (G+C) of a bacteria with G=32; C=30; A=29 and T=21? (20marks)