



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

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

FIRST SEMESTER EXAMINATION

2018/2019 ACADEMIC SESSION

COURSE CODE: MCB 301

COURSE TITLE: BACTERIOLOGY

DURATION: 2 HOURS

HOD's SIGNATURE

NAME:.....

MAT.

No:.....

INSTRUCTIONS: ANSWER ANY THREE (3) QUESTIONS.

QUESTIONS

1. (a) With the aid of a generalized diagram of bacteria cell, explain the five (5) major parts of a bacteria.
(b) Using examples of bacteria, describe the principle of Gram stain reaction.
2. Explain the following biochemical tests: (i) Coagulase; (ii) Catalase; (iii) H₂S production in SIM; (iv) Lactose fermentation.
3. (a) Differentiate between latency of infection and virulence of a bacteria
(b) Write concisely on gastrointestinal tract flora and urogenital flora.
4. Describe the clinical manifestations, pathogenesis, host defenses, epidemiology and control of the disease(s) caused by:
 - (a) *Escherichia coli*;
 - (b) *Salmonella typhi*;
 - (c) *Shigella dysenteriae*.
5. (a) Briefly explain any five (5) ways of treatment and control of bacterial infectious diseases.
(b) Discuss the four (4) types of modern bacterial classification system.