



**ELIZADE UNIVERSITY,
ILARA-MOKIN,
ONDO STATE**

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

FIRST SEMESTER EXAMINATION

2016/2017 ACADEMIC SESSION

COURSE CODE: MCB 301

COURSE TITLE: BACTERIOLOGY

DURATION: 2 HOURS

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HOD's SIGNATURE

NAME:.....MAT. No:.....

**INSTRUCTION
ANSWER ANY THREE QUESTION**

1. a) As a bacteriologist; how will you aseptically collect the following samples for isolation of pathogenic bacteria: i) Blood; ii) Urine; iii) Stool; iv) Throat and v) Vagina.

b) Describe the following parts of a bacterium: i) Flagella; ii) Pili; iii) Fimbriae; iv) S-layer and v) Capsule.

2. a) Describe in details the Gram staining procedure of a named bacteria.

b) Describe how to perform the following biochemical tests for a named bacteria in (2 a) above-
(i) Catalase test (ii) Coagulase test (iii) Glucose fermentation and (iv) Motility test

3. Define infectivity, pathogenicity and virulence of a bacteria.

b) List the way(s) that treatment and control of diseases can be done and explain any four (4) of such ways.

4. (a) Explain phylogenetic and genotypic classification of bacteria.

(b) Describe the different types of bacterial strains and list the molecular characteristics used in microbial taxonomy and phylogeny.