

# ELIZADE UNIVERSITY, ILARA-MOKIN, NIGERIA

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

## FIRST SEMESTER EXAMINATION

## 2019/2020 ACADEMIC SESSION

COURSE CODE:	MCB 407	
COURSE TITLE:	Microbial genetics and molecular Microbiology	
COURSE UNIT:	3 Units	Elaffo6/02/202
DURATION:	2½hours	HOD's SIGNATURE
NAME:		·····
MAT. No:		
INSTRUCTIONS	Answer any TWO (2) questions from each section	

### Section A.

- 1. Explain each of the following terms
  - i. Genetics
  - ii. Genomics
  - iii. Chromosome
  - iv. Gene
  - v. Genotype
  - vi. Phenotype
  - vii. Recombination

15Marks

List any three Scientists and describe in details the experiment performed by one of them which contributed to our understanding of genetics.

15Marks



- 3. Describe in details the processes involved in DNA replication
  - i. write short note on transcription and translation

15Marks

#### Section B.

- 1. a. Describe the following terms
  - a. Conditional mutation
  - b. Spontaneous mutation
  - c. Induced mutation
  - d. Point mutation
  - e. Frameshift mutation
  - b. Compare and contrast between Missense mutation and Silent mutation

15Mark

- With the aid of a diagram, describe how replica plating technique is used to detect and isolate an auxotrophic mutants

  15Marks
- 3. i. Define Transformation
  - ii. Describe the process of transformation in a named bacterium

15Marks