

ELIZADE UNIVERSITY, ILARA-MOKIN, ONDO STATE.

FACULTY: BASIC & APPLIED SCIENCES
DEPARTMENT: BIOLOGICAL SCIENCES
(MICROBIOLOGY UNIT)

FIRST SEMESTER EXAMINATION 2018/2019 ACADEMIC SESSION

COURSE CODE: MC

MCB 407

COURSE TITLE:

MICROBIAL GENETICS AND MOLECULAR MICROBIOLOGY

DURATION:

2 hour

HOD's SIGNATURE

INSTRUCTIONS	
NAME:MAT. No:	

Answer only 4 questions

- 1. a. State the functions of the following
 - i. mRNA
- ii. tRNA
- iii. rRNA
- b. Explain the process of protein synthesis
- 2. a. State the functions of bacterial DNA replication enzymes listed below
 - i. Topoisomerase
 - ii. Helicase
 - iii. Polymerase III
 - iv. Ligase
 - v. Primase
 - b. Describe the replication process of DNA molecule
- 3. With the aid of an experiment, prove that DNA is responsible for bacterial transformation.
- 4. Explain any of the mechanisms adopted by bacteria for repair of DNA damage.
- 5. Describe with the aid of a diagram the ways by which bacteria can acquire DNA.
- 6. With the aid of an annotated diagram, explain gene regulation using *lac* operon as an example.