



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

**FACULTY: BASIC & APPLIED SCIENCES**

**DEPARTMENT: BIOLOGICAL SCIENCES**

**FIRST SEMESTER EXAMINATION**

**2018/2019 ACADEMIC SESSION**

**COURSE CODE: MCB 405**

**COURSE TITLE: PHARMACEUTICAL MICROBIOLOGY**

**DURATION: 2 HOURS**

**HOD's SIGNATURE**

**NAME:.....**

**MAT.**

**No:.....**

**INSTRUCTIONS: ANSWER ANY THREE (3) QUESTIONS.**

## QUESTIONS

1. (a) Discuss selective toxicity in relation to antimicrobial agents.  
(b) Explain any three (3) factors that affect antimicrobial agents.
2. (a) Explain carefully the stepwise commercial production of penicillin.  
(b) Explain the primary screening of antibiotic production.
3. (a) List and briefly discuss the factors to be considered in production of antibiotics on a large scale using microbial fermentation;  
(b) Write on the secondary screening of antibiotic production.
4. a. Antibiotics may either confer broad or narrow spectrum of activities. Explain with examples!  
b. Briefly explain the characteristics of Beta-lactam antibiotics  
c. Distinguish between Penicillin and Cephalosporin antibiotics
- 5 a. Explain the various means by which microbe are killed/inhibited by the different types of antibiotics  
b. Describe some of the processes by which bacteria inhibit or resist the activities of antibiotics.  
c. Outline the factors that influence the action of antimicrobial agents.