



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

**FACULTY: BASIC & APPLIED SCIENCES**

**DEPARTMENT: BIOLOGICAL SCIENCES**

**FIRST SEMESTER EXAMINATION**

**2020/2021 ACADEMIC SESSION**

**COURSE CODE: MCB 405**

**COURSE TITLE: PHARMACEUTICAL MICROBIOLOGY**

**COURSE UNIT: 2 UNITS**

**DURATION: 2 HOURS**

**HOD's SIGNATURE**

**NAME:.....**

**MAT. No:.....**

**INSTRUCTION: ANSWER ANY THREE (3) QUESTIONS**

1. a) Explain any three (3) characteristics of antibiotics.

b) Discuss with examples the following antimicrobial agents:

i) Phenols and phenolics;

ii) Chlorhexidine and

iii) Alcohols.

**20 Marks**

2. Discuss the production of penicillin and its spectrum of activity.

**20 Marks**

3. a) Explain the term narrow spectrum of antifungal drugs.

b) List the primary screening methods for antibiotic production and explain any one of them. **20 Marks**

4. Antibiotics may either confer broad or narrow spectrum of activity. Explain with examples.

**20 Marks**

5. a) What are  $\beta$ -lactam antibiotics?

b) Briefly explain how  $\beta$ -lactam antibiotics such as Penicillin inhibit cell wall biosynthesis.

**20 Marks**