

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

**FACULTY: BASIC & APPLIED SCIENCES**

**DEPARTMENT: BIOLOGICAL SCIENCES**

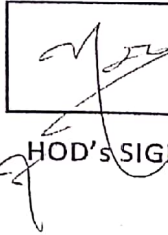
**FIRST SEMESTER EXAMINATION**

**2016/2017 ACADEMIC SESSION**

**COURSE CODE: MCB 405**

**COURSE TITLE: PHARMACEUTICAL MICROBIOLOGY**

**DURATION: 2 HOURS**

  
HOD's SIG.

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

**INSTRUCTION**

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

1. (a) Write a concise note on the quality control of pharmaceutical products.  
(b) Explain the major responsibilities of the quality control unit of pharmaceutical companies.
2. (a) Discuss with the aid of schematic diagram the significant features of penicillin and the peculiarity of the large production of this antibiotics.  
(b) List the characteristics that qualifies a substance to be called an antibiotic and explain any two of them.
3. (a) List and explain any five factors that affect the effectiveness of an antibiotic agent.  
(b) Briefly list and describe the mechanisms of action of named antibiotics on some bacteria.
4. (a) Explain briefly the meaning of resistance of a bacterium on the genetic basis of resistance.  
(b) Explain any four mechanisms of resistance and also explain the phenol test.