



**NATIONAL OPEN UNIVERSITY OF NIGERIA  
FACULTY OF HEALTH SCIENCES  
EXAMINATION QUESTIONS  
2024\_2 EXAMINATION**

**COURSE CODE: PHS810**

**COURSE TITLE: PHARMACOLOGY AND THERAPEUTIC IN PUBLIC HEALTH**

**COURSE UNITS: 2 CREDIT UNITS**

**DEPARTMENT: PUBLIC HEALTH**

**TIME ALLOWED: 2 HOURS**

**TOTAL MARKS: 70**

**INSTRUCTIONS: ANSWER ALL QUESTIONS**

**1**

- a) What is bioavailability and how is it determined for orally administered drugs? **10Marks**
- b) How is the volume of distribution clinically useful? **10Marks**
- c) What is the risk associated with the combination of colchicine and atorvastatin, lovastatin, or simvastatin? **10Marks**

**2**

- a) Highlight the factors affecting the placental transfer of drugs from the mother to the fetus. **10Marks**
- b) Using relevant examples, explain the characteristics of Type C, D, E, and F adverse drug reactions. **10Marks**

**3**

- a) Write a short note on each of the following:
  - I. Spectrum of activity in antimicrobial drugs
  - II. Broad-spectrum antimicrobial drugs
  - III. Adverse effects of antimicrobial drugs **15Marks**
- b) Briefly discuss the concept of antibiotic resistance. **5 Marks**