



**NATIONAL OPEN UNIVERSITY OF NIGERIA
UNIVERSITY VILLAGE, PLOT 91, CADASTRAL ZONE
NNAMDI AZIKIWE EXPRESS WAY, JABI, ABUJA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF PUBLIC HEALTH SCIENCE
2025_2 EXAMINATIONS**

COURSE CODE: PHS810

COURSE TITLE: PHARMACOLOGY AND THERAPEUTICS IN PUBLIC HEALTH

CREDIT UNIT: 2

TIME: 1½ HOURS

TOTAL SCORE: 70 MARKS

INSTRUCTION: ANSWER ALL QUESTIONS

Question 1:

- a) Describe three advantages and three disadvantages of oral drug administration. (12 marks)
- b) Discuss five factors affecting the bioavailability of orally administered drugs. (10 marks)

Question 2:

- a) Explain the five main mechanisms of drug toxicity with examples for each. (16 marks)
- b) Highlight five potential challenges encountered while obtaining drug history from patients during hospital admissions. Suggest strategies to overcome these challenges. (10 marks)

Question 3:

- a) What is the therapeutic window? Discuss two significances of therapeutic window in drug dosing and compare drugs with narrow and wide therapeutic indexes, with one example for each. (12 marks)
- b) Describe the two phases of drug metabolism, including the types of reactions that occur in each phase. (10 marks)