



**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_1 EXAMINATION**

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) Discuss any three factors that influence the pattern of drug distribution within the body and explain how these factors contribute to uneven distribution across tissues. (10 marks)
- b) Define the volume of distribution (V_d) and explain its significance in drug dosing. Describe how the V_d varies with specific drugs and conditions. (14 marks)

Question 2:

- a) Explain the mechanism of action of Digoxin in treating Congestive Heart Failure (CHF) and outline its adverse effects (10 marks)
- b) Discuss the impact of drug use during pregnancy on fetal development, including a short note on teratogenic effects (14 marks)

Question 3:

- a) Discuss the effects of heavy metals on human health and provide two examples of toxic heavy metals. (12 marks)
- b) Describe the pharmacological actions and therapeutic indications of Oxytocin in pregnancy. (10 marks)