



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**UNIVERSITY VILLAGE, NNAMDI AZIKIWE EXPRESS WAY, JABI-ABUJA**  
**FACULTY OF HEALTH SCIENCES**  
**DEPARTMENT OF NURSING SCIENCES**  
**2023\_1 POP EXAMINATION.**

**PROGRAMME: BACHELOR OF NURSING SCIENCE (BNSc.)**

**COURSE CODE: NSC307**

**COURSE TITLE: CLINICAL PHARMACOLOGY AND CHEMOTHERAPY**

**CREDIT UNITS: 3**

**TIME ALLOWED: 2 HOURS**

**TOTAL MARKS: 70%**

**INSTRUCTION: ANSWER ALL THE QUESTIONS.**

**QUESTION 1.**

- a) Define the following terms:
- i. Pharmacology
  - ii. Toxicology
  - iii. Chemotherapy **(3 marks)**
- b) i. Which is the most commonly used route of drug administration? Mention 4 dosage forms given by this route. **(3 marks)**
- ii. List two (2) important advantages and 2 important disadvantages of the most commonly-used route of drug administration **(4 marks)**

**QUESTION 2.**

- a) Explain the WHO concept of Essential drugs **(10 marks)**
- b) Mention five (5) WHO-laid criteria that a drug must fulfil to be considered an essential drug. **(10 marks)**

**QUESTION 3.**

- a) Describe the physicochemical factors that modify drug absorption **(6 marks)**
- b) Discuss the approaches used to launch various drugs into the market **(8 marks)**
- c) Irrespective of the type of neuron under consideration, certain steps describe the fundamental steps in chemical transmission. What are these steps? **(6 marks)**

**QUESTION 4.**

- a) i. What do you understand by Asthma? **(1 mark)**
- ii. Explain what is meant by Intrinsic and Extrinsic Asthma? **(4 marks)**
- b) List with examples 6 classes of drugs used in the treatment of asthma **(5 marks)**
- c) Give five classes of drugs and one example each used in the treatment of peptic ulcer disease **(5 marks)**
- d) Proton Pump Inhibitors are now currently used in the treatment of peptic ulcer disease, discuss. **(5 marks)**