



“Investing in Africa’s future”

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

NSNS 319: PHARMACOLOGY

END OF 2nd SEMESTER FINAL EXAMINATIONS

13 May 2021

LECTURER: MRS KAPFUNDE

DURATION: 0900 HRS-1600HRS

INSTRUCTIONS

Answer one question

All questions carry equal marks (100) each.

DO NOT repeat material.

Write legibly.

QUESTION 1

- a. Define Pharmacology (2)
- b. Describe the mechanism of drug action using the following processes:
 - i. Pharmaceutics (10)
 - ii. Pharmacokinetics (40)
 - iii. Pharmacodynamics (40)
- c. Outline the commonly used routes of administration of drugs (8)

QUESTION 2

- 2.a. Define the term drug (2)
- b. Outline the origins and source of drugs (8)
- c. Explain how the following pharmacological properties of drugs will influence the route of administration
 - i. Drug action (10)
 - ii. Drug efficacy and potency (10)
 - iv. Drug serum levels (10)
 - v. Potential for drug interaction (10)
 - vi. Drug toxicity (10)
 - d. Describe the drug receptor interaction using the following concept
 - i. Drug affinity (5)
 - ii. Intrinsic activity (5)
 - iii. Agonist (5)
 - iv. Antagonist (5)
 - v. Therapeutic index (5)
 - vi. Therapeutic range (5)
 - e. Side effects (5)
 - f. Adverse effects (5)

QUESTION 3

Safety of drugs is the major concern in nursing and nursing care of patients of all ages.

- a. Outline the basic principles of drug administration that a nurse would consider in giving drugs to patients (20)

- b. Using the nursing process approach describe how you would apply the client rights in administration of medications. (50)
- c. Discuss the nursing considerations that are considered for safety of drugs given to the patients. (20)
- d. outline the nurse's responsibility in prevention of drug toxicity among chronic patients. (10)

END OF PAPER