

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF MASTER OF SCIENCE IN NURSING

NUMS 823: ADVANCED PHARMACOLOGY I

STREAMS: Y2S2

TIME: 3 HOURS

DAY/DATE: WEDNESDAY 14/07/2021

2.30 P.M. – 5.30 P.M.

INSTRUCTIONS:

- Do not write anything on the question paper.
- Mobile phones and any other reference materials are NOT allowed in the examination room.
- Number ALL your answers and indicate the order of appearance in the space provided in the cover page of the examination answer booklet.

ANSWER ALL QUESTIONS

- 1 a. Using **gentamycin** as an example, explain the pharmacokinetic processes (10marks)
b. Describe the drug development process. (10 marks)
- 2 a. Classify **penicillin's** according to their spectrum of activity, clearly indicating relevant examples, clinical indications and adverse effects of each class. (10marks)
b. Discuss the **two main acts** of parliaments that control and regulate drugs production, distribution, prescription and administration in Kenya (10 marks)
3. a. Explain **four classes** of **antiretroviral** drugs used in management of HIV/AIDS clearly outlining their mechanism of action, side effects and two examples in each class. (10 marks)
b. Discuss use of **chiropractic and acupuncture** as complementary modes of treatment (10 marks)

4. a. Describe the clinical uses, route of administration, mechanism of action and side effects of the “**azoles**” group of **antifungal** compounds. (10 marks)

b. Drug interactions can be **beneficial** or **harmful**. Using relevant examples, explain three situations in which we combine drugs for their beneficial effects and two situations where combination may be harmful. (10marks)

5. a. Classify **fluoroquinolones**, clearly indicating examples of drugs, clinical uses and adverse effects of each class. (10 marks)

b. Describe the clinical uses, route of administration, mechanism of action and side effects of **Tetracyclines**. (10 marks)

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