

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATION

RESIT/SPECIAL EXAMINATIONS

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

NUMS 823: ADVANCED PHARMACOLOGY 1

STREAMS: Y1S1

TIME: 3 HOURS

DAY/DATE: TUESDAY 04/05/2021

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. Describe the mechanism of action, clinical uses, route(s) of administration and major side effects of **aminoglycosides**. (10marks)
b. Explain using relevant examples the difference between definitive and empiric therapy (10marks)
2. a. Using penicillin as an example explain the pharmacokinetic processes (10marks)
b. Describe the clinical uses, route of administration, mechanism of action and side effects of the “azoles” group of antibacterial compounds. (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. (10marks)

- b. Describe drug development process. (10marks)
4. Discuss the use of drugs in the treatment of Tuberculosis, focusing on the mechanism of action and side effects and other clinical indications of any FOUR main drugs used in treatment of Tuberculosis. (20marks).
- 5 a. Discuss, giving relevant examples use of complementary medicine as a better alternative to contemporary medicine (10marks)
- b. Describe the clinical uses, route of administration, mechanism of action and side effects of **macrolides** (10 marks)
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