

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

NUMS 826: ADVANCED PHARMACOLOGY II

STREAMS: NURS Y4S1

TIME: 3 HOURS

DAY/DATE: FRIDAY 8/12/2017

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 in Section I** and any other **THREE Questions**

SECTION I

1. Describe drug development process. [10 Marks]
2. Explain FIVE (5) clinical situations where prophylactic antibiotics are indicated. [10 Marks]
3. Using the examples of a given drug, describe the pharmacokinetic process. [10 Marks]
4. Different therapeutic approaches can be used to manage different disease conditions. Explain how you would manage a small child brought to emergency room suffering from bronchopneumonia using empiric therapy. [10 Marks]

SECTION II

1. (a) Describe the mechanism of action, clinical uses and side effects of aminoglycosides. [10 Marks]

(b) Describe the clinical uses, route of administration, mechanism of action and side effects of "azoles" group of antifungal compounds. [10 Marks]
2. (a) Describe any two treatments for hypertension that target different parts of the sympathetic nervous system in its control of blood pressure. In your answer, explain the pharmacology of their actions and the organs or systems they influence. [10 Marks]

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- (b) Classify diuretics according to where they act, giving relevant examples in each class. [10 Marks]
3. (a) Discuss the use of drugs in the treatment of schizophrenia, focusing on the mechanism of action and main side effects of TWO major classes of antipsychotic drugs. [10 Marks]
- (b) Explain four classes of drugs used in management of parkinsonism clearly indicating their mechanism of action, therapeutic effects and side effects. [10 Marks]
4. (a) Discuss the mechanisms of action and major side effects of THREE major classes of drugs used to treat gastric/duodenal ulcers. [10 Marks]
- (b) Asthma can be a significant medical emergency. Describe its medical management. [10Marks]
5. Describe combined oral contraceptives, to include mechanism of action, any clinical implications and side effects from the chronic use of these compounds. [10 Marks]
- (b) Discuss the mechanism of action, side effects and clinical uses of Viagra (sildenafil) [10 Marks]
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