

**CHUKA**



**UNIVERSITY**

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**UNIVERSITY EXAMINATIONS**

**1<sup>ST</sup> YEAR EXAMINATION FOR THE AWARD OF  
MASTERS OF SCIENCE IN NURSING**

**NUMS 826: ADVANCED PHARMACOLOGY II. TIME: 3 HOURS**

**DAY/DATE:.....**

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**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 ANY FIVE QUESTIONS

1. a. Explain the mechanism of action, main clinical indications and side effects of the **THREE** classes of **anti clotting drugs**. (10 marks)

b. Discuss the mechanism of action, clinical uses and side effects of **opioids** (10mks)

2. Discuss the use of drugs in the management of hypertension, focusing on the mechanism of action, other clinical indications and main side effects of **FOUR** major classes of antihypertensives. (20mks)

3. a. Discuss the use of drugs in the treatment of convulsive disorders, focussing on the mechanism of action and main side effects of **TWO** major classes of anticonvulsants. (8 mks).

b. Explain **FOUR** classes of drugs used in management of depression clearly indicating their mechanism of action, other clinical indications and side effects. (12mks)

4. a. Explain the physiologic effects of **antimuscarinic drugs**, focusing on **FIVE organ/ system effects** you should monitor to confirm they are working. (10mks)

b. Asthma can be a significant medical emergency. Describe its medical management. (10 marks)

5. a. Describe injectable contraceptive (depoprovera), 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 sildenafil. (Viagra) 10mks)

6a. Discuss the mechanism of action, side effects and main clinical indications of **any THREE oral hypoglycemic agents** ( 10mks)

b. Explain the mechanism of action, side effects and clinical uses of **TWO** classes of chemotherapeutic agents (anticancer drugs). (10mks)