

**UNIVERSITY OF SWAZILAND**  
**FACULTY OF HEALTH SCIENCES**  
**GENERAL NURSING SCIENCES**

**SUPPLEMENTARY EXAMINATIONS, JULY, 2006**

**COURSE TITLE: PHARMACOLOGY**

**COURSE CODE: NUR 203**

**DURATION: 2 HOURS**

**MARKS: 75**

**INSTRUCTIONS:**

- 1. Section A, question one is calculations and it is compulsory.**
- 2. Do not use a calculator!!!!**
- 3. Choose five questions of your choice from section B.**
- 4. All your answers should be written on the answer sheet provided.**

**DO NOT OPEN THE QUESTION PAPER UNTIL YOU ARE TOLD TO DO SO.**

**SECTION A**

**QUESTION ONE**

**CALCULATIONS**

**a) The doctor ordered 1500ml to infuse in 12 hour time and the drop factor is 15**

**How many gtt./min would you administer (3)**

**b) You are to administer 500ml of normal saline for 4 hours, the drop factor is 13.**

**How many gtt./min would you administer. (3)**

**c) Make up 1000ml. of normal saline (4)**

**d) The doctor ordered 200mg of ampicillin I.M. q. 4h. Available is ampicillin 1GM. in a 10 ml vial. Each Gm of ampicillin should be diluted with 4ml of sterile water for injection. The reconstituted material will provide two 500 mg. doses of 2.2ml each.**

**How many ml. will you give? (5)**

**e) The average dose of Furadantin is 0.5Gm for the adult. How many mg. will a 17-month-old child receive? Use Fried's Rule (5)**

**f) The adult dose of erythromycin is 250 mg. Each teaspoon contains 500mg. The child is 8 years old. USE YOUNG'S RULE**

**i) How many mg would you give? (3)**

**ii) How many ml would you give this child? (2)**

**TOTAL: 25**

## SECTION B

### Question two

Describe the following terms

- a) synergism (2)
  - b) potentiation (2)
  - c) antagonism (2)
  - d) Summation (2)
  - e) Agonist (2)
- (10)

### Question three

Discuss the factors that influence drug absorption (10)

### Question four

Barbiturates are drugs that brings about sedation and hypnosis.  
Discuss them under the following headings

- a) Pharmacodynamics (3)
- b) Nursing Implications (7)

### Question five

Discuss the nursing considerations of heparin (10)

### Question six

Discuss Miconazole under the following headings

- a) Therapeutic uses (2)
- b) Pharmacokinetics (2)
- c) Preparations and doses (3)
- d) Adverse effects (3)

### Question seven

Describe Penicillin under the following headings

- a) Action (2)
- b) Pharmacokinetics (3)
- c) Adverse effects (5)