

UNIVERSITY OF SWAZILAND

**FACULTY OF HEALTH SCIENCES
GENERAL NURSING SCIENCES**

FINAL EXAMINATIONS, MAY, 2005

COURSE TITLE: PHARMACOLOGY

COURSE CODE: NUR 203

TOTAL MARKS: 75

DURATION: 2 HOURS

- INSTRUCTIONS:**
- 1. Section A, question one (1), is compulsory and it carries 25 marks.**
 - 2. Answer any five questions of your choice in section B and each question carries 10 marks.**
 - 3. For each fact half ($\frac{1}{2}$) a point is given and for the explanation of the fact, half ($\frac{1}{2}$) a point is given.**
 - 4. Answer all your questions on the provided answer sheet**

NB: DO NOT USE A CALCULATOR FOR YOUR CALCULATIONS

DO NOT OPEN UNTIL YOU ARE TOLD TO DO SO!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

SECTION A

Question 1

Do the following calculations and do not use a calculator

- a) The doctor ordered 1000ml to infuse in 6 hours. How many gtt/min would you administer when the drop factor is 15 (3)
- b) The doctor ordered 500ml to infuse in 8 hours using a microdrip. How many gtt/min would you administer (3)
- c) You have 500 ml of 0.45% normal saline to infuse in 4 hrs. Drop factor is 13. How many gtt/min would you administer (3)
- d) The doctor ordered penicillin G 300 000 units I.M. You have a multi-dose vial containing 1 million units and the following directions

millilitres of diluent added	units per millilitre
19.6	50 000
9.6	100 000
3.6	250 000
1.6	500 000

- i) Which diluent will you make and label, give your rationale ? (3)
- ii) How many ml or part of a ml will you give ? (3)
- e) Dilute a vial containing 500 000 U of ampicillin so that each ml contain 50 000 U.
- i) How much distilled water will you need to add to the vial to get 50 000 U/ml (5)
- f) Available is DPH syrup 100mg/5ml as the average adult dose.
- i) Using Young's rule, calculate the dosage for a 4 year old child (5)

SECTION B

ANSWER ANY FIVE QUESTIONS FROM THIS SECTION

Question 2

Describe the factors that influence drug absorption during the action of drugs
(10)

Question 3

- a) Explain two orders that can be given to a nurse without a prescription (2)
- b) Describe the prescription of drugs (8)

Question 4

Discuss the nursing implications of amphetamines (10)

Question 5

Discuss Heparin under the following headings

- a) Action (2)
- b) therapeutics (3) (10)
- c) Pharmacokinetics (3)
- d) interactions (2)

Question 6

Discuss isoniazid under the following heading

- a) Nursing consideration (10)

Question 7

- a) Discuss the action of sulfonamides (5)
- b) Discuss the contraindications of sulfonamides (5)