

**UNIVERSITY OF SWAZILAND**

**FACULTY OF HEALTH SCIENCES  
GENERAL NURSING SCIENCES**

**FINAL EXAMINATIONS, MAY, 2007**

**COURSE TITLE: PHARMACOLOGY**

**COURSE CODE: NUR 203**

**TOTAL MARKS: 75**

**DURATION: 2 HOURS**

**EXAMINER: Dr. PRISCILLA DLAMINI**

- INSTRUCTIONS:**
- 1. Section A, question one (1), is compulsory and it carries 25 marks. Do not use a calculator.**
  - 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**

**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) Using Young's Rule calculate the following children's doses

i) Calculate the dose of ampicillin if the adult dose is 500mg. The child is 2 years old. Available is ampicillin 500mg per 2 ml vial. How many **MLS** will you give this child?

(5)

ii) An average adult dose of diazepam p. o. is 4 mg. The child is 10 years old. Diazepam is available in tablet form of 1, 2, 3 and 4 mgs. How many tablets or what part of a tablet will be the correct dose ?

(5)

b) Apply Fried's Rule

Post operatively, narcan has been ordered for a 3-month old baby. Available is narcan 0.4 mg/ml and narcan 0.02 mg/ml for injection. The average adult dose is 0.4mg.

i) Which vial will you use and give your rationale (2)

ii) How many ml will you give this baby? (3)

c) The doctor ordered 1.2 million Units of Penicillin. You have a 10 ml vial containing 0.5 million Units per ml.

i) How many ml will you give ? (3)

ii) How many Units of penicillin will be left in the vial? (2)

d) Prepare 4 Its of a 1:500 ml solution of Lysol (5)

**SECTION B**

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**ANSWER ANY FIVE QUESTIONS FROM THIS SECTION**

**Question 2**

A patient is admitted with congestive cardiac failure. The doctor ordered diuretics ( thiazides)

Describe the nursing implications when administering thiazides. (10)

**Question 3**

Discuss the role of the nurse in drug abuse (10)

**Question 4**

Discuss colchicine under the following headings

- a) action (2)
  - b) therapeutic uses (2)
  - c) preparation and doses (4)
  - d) pharmacokinetics (2)
- (10)

**Question 5**

Discuss erythromycin under the following headings

- a) action (2)
  - b) pharmacokinetics (2)
  - c) Nursing implications (6)
- (10)

**Question 6**

Discuss the effects of morphine on the major organs of the body (10)

**Question 7**

Discuss the nursing implications when administering morphine to a patient  
(10)