

UNIVERSITY OF SWAZILAND
FACULTY OF HEALTH SCIENCES
GENERAL NURSING SCIENCES DEPARTMENT
SUPPLEMENTARY EXAMINATIONS, JULY, 2005

COURSE TITLE: PHARMACOLOGY

COURSE CODE: NUR 203

TOTAL MARKS: 75%

DURATION: 2 HOURS

INSTRUCTIONS:

- 1. Section A (calculations) is compulsory and carries 25 marks**
- 2. In section B answer any five questions of your choice. Each questions carries 10 marks.**
- 3. Marks are given $\frac{1}{2}$ (half) for a fact and $\frac{1}{2}$ (half) for the explanation of the fact.**
- 4. Answer all questions on the provided answer sheet.**

NB: DO NOT USE A CALCULATOR

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

SECTION A

QUESTION 1

CALCULATIONS (DO NOT USE A CALCULATOR)

a) The doctor ordered 150 ml 100 ml of ampicillin to infuse within 30minutes.
The drop factor is 12. How many gtt/min would you administer ? (3)

b) The doctor ordered 1500 of Ringers lactate solution to run for 12 hours. How
many gtt/min would you administer when the drop factor is 15 (3)

c) The doctor ordered Aq. Penicillin 600 000 U in 100 cc I.V. piggy back to
infuse in 1 hour.

i) How many gtt/min if the drop factor is 12 ? (3)

d) The doctor ordered 1.2 million units of penicillin. You have a 10 ml vial
containing 0.5 million units U/ml

i) How many ml will you give (2)

ii) How many ml will be left in the vial (2) (6)

iii) How many units of penicillin will be left in the vial (2)

e) The doctor ordered multivitamin syrup. The average adult dose is 2tsp q. 4h.
The child weighs 40lb (pounds)

i) Using Clark's Rule, how many ml will you give the child (5)

f) The average adult dose of codeine syrup is 30mg.

Using Young's rule calculate the dose in grains for an 8 year old child.

(1 grain is equivalent to 60mg) (5)

Total 25

SECTION B

ANSWER ANY FIVE QUESTIONS FROM THIS SECTION

Question 2

Discuss the theories of drug action (10)

Question 3

Describe the patient's characteristics in relation to adverse drug reactions
(10)

Question 4

Define the following terms

- a) Drug (2)
- b) Pharmacology
- c) Explain the four ways by which antimicrobial agents function at the cellular and sub-cellular levels and give examples (8)

Question 5

Discuss antacids under the following headings

- a) Action (2)
- b) therapeutic uses (2)
- c) Preparations (2)
- d) Side effects (2)
- e) interactions (2)

Question 6

Discuss the nursing implications of quinidine (10)

Question 7

- a) describe the action of corticosteroid (5)
- b) Describe the therapeutic uses of corticosteroids (5)

Total: 75 marks