

UNIVERSITY OF SWAZILAND

FACULTY OF HEALTH SCIENCES

DEPARTMENT OF GENERAL NURSING SCIENCE

MAIN EXAMINATION PAPER MAY 2016

COURSE CODE : GNS 208
COURSE TITLE : PHARMACOLOGY FOR NURSING
TOTAL MARKS : SEVENTY-FIVE (75)
DURATION : TWO (2) HOURS

INSTRUCTIONS:

1. THE PAPER HAS FIVE QUESTIONS
2. ANSWER ALL FIVE QUESTIONS
3. INSTRUCTIONS ARE GIVEN AT THE BEGINNING OF EACH QUESTION
4. FIGURES IN BRACKETS INDICATE MARKS ALLOCATED PER QUESTION OR A PART OF THAT QUESTION
5. **HANDWRITING MUST BE LEGIBLE.**
6. USE A FRESH PAGE TO ANSWER EACH NEW QUESTION
7. THE PAPER HAS 9 PAGES INCLUDING THE FRONT PAGE

DO NOT OPEN THE EXAMINATION PAPER UNTIL THE INVIGILATOR INSTRUCTS YOU TO DO SO

QUESTION 1

Instruction:

Write out one therapeutic classification of each one of the listed ten drugs. In your answer booklet, write as follows: 1.1 = an antibiotic, 1.2 = a beta blocker and so forth.

- 1.1 Digoxin = (1)
- 1.2 Salbutamol = (1)
- 1.3 Diazepam = (1)
- 1.4 Chloroquine = (1)
- 1.5 Prednisolone = (1)
- 1.6 Heparin = (1)
- 1.7 Pethidine = (1)
- 1.8 Nevirapine = (1)
- 1.9 Haloperidol = (1)
- 1.10 Flagyl = (1)

[10 points]

QUESTION 2

Instruction:

Covert the listed five measurements as requested by writing in your answer booklet as follows: 2a. = 10 g,
2b. = 60 mg and so forth.

- 2a. 1000 mcg = _____ g
- 2b. 6g = _____ mg
- 2c. 1200mg = _____ kg
- 2d. 9lb = _____ kg
- 2e. 3kg = _____ g

[5 points]

QUESTION 3

Instructions:

- Show a step-by-step calculation of the given drug in the following situation

Situation

Medrol 4mg/kg is ordered for a child who weighs 64.8lb. The drug is available in stock as 500 mg/4ml. How many ml of Medrol will be administered to this child?

[10 points]

QUESTION 4

Instruction:

Select the most appropriate answer for each question and write using UPPERCASE (A, B, C, D) it in your answer booklet: *Example: 4.1 = A, 4.2 = D and so forth.*

- 4.1 Which one of the following drugs is most effective in the management of clients with anxiety?
- chlorpromazine
 - chlorthiazide
 - epilim
 - diazepam.
- 4.2 Which one of the following drugs will delay absorption of the others when taken at the same time?
- paracetamol capsules
 - calcium effervescent
 - digoxin tablets
 - myogel suspension
- 4.3 If 1.2g of potassium chloride is to be administered and the available strength in stock is 600mg, how many tablets will be administered to the client?
- $\frac{1}{2}$
 - 1
 - 2
 - 3
- 4.4 Which one of the following individuals will be worse affected by drug toxicity owing to her/his developmental stage? The
- expectant middle aged Mrs. Mamba
 - seventy-two-year old Prince Gabha
 - nursing mother, Miss Khumalo
 - six-month-old Baby Thembinkosi
- 4.5 Mr. Ndlovu experiences shortness of breath upon slightest exertion. Which drug will alleviate this symptom?
- calcium gluconate
 - glycerine trinitrate
 - ventolin inhaler
 - digoxin tablets
- 4.6 Mavis is going to Tanzania for a spiritual retreat. She needs to start prophylactic treatment of the drug _____.
- metronidazole
 - haloperidol
 - chloroquine

- d. tetanus toxoid
- 4.7 The maximum prescribed dose of a certain drug is 300mg and must be administered in 2 divided doses per 24 hours. If a client receives 150mg TDS of the same drug, this will be a/an _____ dose.
- under
 - over
 - loading
 - moderate
- 4.8 The following factors affect drug absorption EXCEPT:
- route of administration
 - partial gastrectomy
 - protein binding capacity
 - fatty meal
- 4.9 The drug _____ is most effective in the management of pain that is associated with rheumatoid arthritis.
- diclofenac
 - paracetamol
 - morphine
 - ibuprofen
- 4.10 Mr. Mhlanga is on digoxin PO daily. His pulse rate this morning is 68 beats per minute. What line of action must he take with regards to his digoxin dose this morning? He ought to:
- skip the dose for today
 - wait for two hours, check again his pulse rate
 - go ahead and self-administer the drug
 - postpone taking the drug till evening time
- 4.11 A child is on phenobarbitone suspension 80 mg BD. The drug comes in the concentration of 20mg/5ml. How much of the drug will be administered to this child?
- 10ml
 - 15 ml
 - 20 ml
 - 25 ml
- 4.12 Mfana has just returned to the ward from theatre where he had appendicectomy done. Which one of the following drugs is he likely to be written up to manage his pain for The first 24 hours?
- pethidine
 - diclofenac
 - paracetamol
 - buscopan

- 4.13 Bongi's ringworms are more likely to respond to treatment with _____.
- procaïne penicillin
 - betadine ointment
 - Whitfield's ointment
 - Lugol's iodine
- 4.14 Which of the following would you put more emphasis on if you were to give health education on drugs to a group of pregnant women who had come for their regular antenatal check up?
- first-pass
 - teratogenic
 - brain barrier
 - all the above.
- 4.15 Mrs. Mlambo has stage four cancer of the cervix and in a lot of pain. The pain she is experiencing is likely to be controlled by _____ cocktail.
- paracetamol
 - diclophenac
 - ibobrufen
 - morphine
- 4.16 Ntombikayise has dysmenorrhoea. Which one of the following drugs is more likely to be effective in relieving her condition?
- aspirin
 - paracetamol
 - hyoscine butylbromide
 - phenergan
- 4.17 Mrs Ndlovu has diabetes mellitus and is to self-administer 40 units of soluble insulin. In stock there is an 80 units/ml vial. How much soluble insulin will she self-administer?
- 2ml
 - .5ml
 - .8ml
 - .4ml
- 4.18 Which one of the following drugs is a potassium sparing drug?
- spironolactone
 - prednisolone
 - aldactone
 - gaviscon
- 4.19 Ferrous sulphate is administered to expectant women as _____ treatment:
- acute care
 - supportive
 - corrective
 - chronic care

- 4.20 Administration of drugs via the buccal route entails placing the drug _____ .
- under the tongue
 - at the centre of the tongue
 - between the cheek and teeth
 - at the back of the tongue.
- 4.21 The drug premarin is generally administered to
- young women who are in active labour
 - middle aged women being bothered by hot flushes
 - elderly women who suffer from rheumatoid arthritis
 - adult women who suffer from dysmenorrhoea
- 4.22 The drug _____ is used as long term drug management of a client with type 2 diabetes mellitus.
- daonil tablets
 - dextrose 50% solution
 - colchicine tablets
 - haloperidol suspension
- 4.23 Mrs. Dlamini is on methyldopa. One of the bad side effects of this drug is _____ .
- loss of appetite
 - impaired hearing
 - decreased libido
 - increased appetite.
- 4.24 Which drug is likely to stain the teeth of children?
- chloramphenicol suspension
 - albendazole suspension
 - tetracycline elixir
 - piperazine elixir
- 4.25 Which one of the following listed drug regimens reflects first line antiretroviral treatment for non pregnant adults?
- TDF + 3TC + EFV
 - TDF + 2TC + EFV
 - TDF + 3TC + NVP
 - TDF + 2TC + NVP
- 4.26 Mrs. Ngwenya will be undergoing prolonged abdominal surgery and therefore _____ will be administered pre-operatively to her as a cardiovascular complication prophylaxis.
- soluble insulin
 - glycerine trinitrate
 - warfarin
 - digoxin

- 4.27 Using a drop factor of 15 gtt/ml, what will be the flow rate for 1500 ml IV Normal Saline 0.9% that is to run in 12 hours?
- 41 gtt/ml
 - 31 gtt/ml
 - 21 gtt/ml
 - 11 gtt/ml
- 4.28 The maximum amount of a drug that is to be administered IM per gluteal muscle in an adult is _____ ml.
- 2
 - 2.5
 - 3
 - 3.5
- 4.29 If the maximum dose of heparin per 24 hours is 40,000 units and a client is ordered 15,000 units TDS, the client will be receiving a/an _____ dose.
- adequate
 - under
 - over
 - peak
- 4.30 Which one of the following drugs might be responsible for passing urine that is bright yellow in colour?
- vitamin C
 - Vitamin B
 - doxycycline
 - tetracycline
- 4.31 Which one of the following drugs is responsible for passing very dark stools?
- heparin
 - ferrous sulphate
 - zidovudine
 - furosemide
- 4.32 The most effective route of administering drugs is _____ .
- topically
 - parentrally
 - orally and per inhalation
 - all the above.
- 4.33 Which one of the following drugs MUST NOT be discontinued abruptly?
- heparin
 - prednisolone
 - aspirin
 - insulin

4.34 Mr. Hlatshwayo has had two episodes of myocardial infarction. Which one of the following drugs will be prescribed for him as maintenance therapy against possible cardio-vascular complications?

- a. paracetamol
- b. aspirin
- c. ibuprofen
- d. diclofenac

4.35 The prophylactic dose of Vitamin A for an 8-month-old infant is _____ IU.

- a. 50,000 IU
- b. 100,000 IU
- c. 150,000 IU
- d. 200,000 IU

[35 POINTS]

QUESTION 5

INSTRUCTION:

Answer as directed by the question

5.1 Describe any five out of the eight rights of drug administration to clients (10 points)

5.2 Name any five controlled drugs of addiction. (5 points)

[15 points]

TOTAL POINTS = 75