UNIVERSITY OF SWAZILAND FACULTY OF HEALTH SCIENCES DEPARTMENT OF GENERAL NURSING

FINAL EXAMINATION, MAY 2013

COUESE TITLE:

PHARMACOLOGY IN NURSING

COURSE CODE:

GNS 208

TIME ALLOCATED:

TWO (2) HOURS

MARKS ALLOCATED: 75

INSTRUCTION:

- ANSWER ALL QUESTIONS
- THERE ARE SEVEN (6) PRINTED PAGES EXCLUDING COVER PAGE
- THERE ARE 2 SETIONS, A AND B:
 - SECTION A: OBJECTIVE QUESTIONS WORTH 35 MARKS
 - SECTION B: THREE FREE RESPONSE QUESTIONS WORTH 40 MARKS

DO NOT OPEN THIS QUESTION PAPER UNTIL YOU ARE TOLD TO DO SO BY THE INVIGILATOR

SECTION A: OBJECTIVE QUESTIONS (35 MARKS)

For each question, choose the most appropriate response and write in your answer booklet the corresponding letter only, in capital letters, e.g. 31 B. Each correct response carries 1 mark.

1. Mechanism of action of a drug is best described as its

	A. Posology
	B. Pharmacology
	C. Pharmacodynamics
	D. Pharmacokinetics
2.	Which of the following is correct about alkaloid drugs in general?
	A. They neutralises acids
	B. They include caffeine
	C. They are extracted from parts of plants
	D. All of the above
3.	Who is responsible for controlling the use and monitoring the quality of drugs used in a
	country?
	A. Nurses and doctors
	B. Food and Drug Authority
	C. Pharmacies
	D. Pharmacopoeia
4.	In prescribing any medication to a client, it is recommended that you use
	·
	A. The chemical name
	B. The generic name
	C. The brand name
	D. All the names together

5	A client come comploining of covere boodsobe and nanoactomed 1 a 1 times a day for five
٠,	A client came complaining of severe headache and paracetamol 1g 4 times a day for five
	days was prescribed. The client took the medication only for one day and then stopped. Which of the following is the most probable outcome of this treatment?
	Which of the following is the most probable outcome of this treatment?
	A. Drug resistanceB. The headache may continue
	C. More opportunistic infections will arise
	D. A. and B
6.	Fungal infections are one of the common opportunistic infection in HIV infected people.
	Which of the following drugs may be given specifically to cure these infections?
	A. Zidovudine
	B. Fluconazole
	C. Any antiretroviral drug
	D. They have no cure
7.	Cotrimoxazole in HIV infected people is usually meant to
	A. Block viral replication.
	B. Prevent opportunistic infections
	C. Stimulate production of CD4 cells
	D. Treat viral opportunistic infections
8.	Pethidine is usually administered over a short period of time primarily because
	A. It is very expensive and available in limited stocks
	B. It acts very fast and its action is irreversible
	C. It can cause tolerance or addiction
	D. All of the above
9.	For a TB client receiving first line anti TB drugs, which of the following adverse effect
	may a nurse need to be cautious of?
	A. Postural hypotension
	B. Peripheral neuropathy
	C. Immunosuppression
	D. Internal bleeding

A	. Gentamycin
В	. Streptomycin
C	. Adrenaline
D	A. and B.
11. A	A drug of preference for a diarrhoeal gastrointestinal infection is
A	. Metronidazole
В	. Magnesium trisilicate
C	. Cimetidine
D	. Miconazole
12. W	hat health education would you give to client taking cimetidine?
	. To reduce salt intake
В.	To avoid smoking
C.	To take the medication on an empty stomach
	All of the above
13. W	hich of the following clients would you advise to avoid driving or operating machines
	ter taking medication? One who is taking
	Phenobabitone
	Diazepam
	Codeine phosphate
	All of the above
14. W	hich of the following is true about codeine phosphate?
A.	It is a pain-killer
В.	It can relieve cough
C.	It can alleviate diarrhoea
D.	All of the above
l5. Me	ebendazole is used to treat
A.	Fungal infections
B.	Viral infections of the gut

10. Which of the following drugs is associated with hearing problems as a side effect?

	D.	Any bacterial infection
16.	. M :	alaria can be treated with
	A.	Quinine
	В.	Fansidar
	C.	Amoxicillin
	D.	A and B
17.	Lu	lu sustained an ankle sprain while playing soccer. The ankle is painful and swollen and
	wa	rm on touching, but all vital signs are normal. Internal injuries have not been ruled out
	W	hich analgesic will be most appropriate
	A.	Aspirin
	B.	Paracetamol
	C.	Ibuprofen
	D.	Pethidine
8.	Μι	iscle relaxants include
	A.	Tubocurarine
	В.	Acetycholine
	C.	Adrenergic receptor blockers
	D.	Diclofenac
9.	Wh	nich of the following can alleviate hypoglycaemia?
	A.	Insulin
	В.	Glibenclamide
	C.	Glucagon
	D.	A. and B
0.	In a	hospital setting, which of the following drugs would you find on an emergency
•	trol	ley?
	A.	Hydrocortisone
	В.	Diazepam
(C.	Adrenaline
	D.	All of the above

C. Worm infestations of the gut

Match each of the drug or class of drugs in column A with its appropriate mode of action in column B

Column A – Drug	Column B - Mode of action
21. Atenolol	A. Replacement of ions
22. Benzyl penicillin	B. Stimulate certain receptors
23. Magnesium trisilicate	C. Inhibits enzymes
24. Tenofovir	D. Incorporated into DNA and halt replication
25. Cefaclor	E. Blocks ion channels
26. Nifedipine	F. Blocks certain receptors
27. Captopril	G. Stimulates production of antibodies
28. Ferrous sulphate	H. Interferes with bacterial cell wall integrity or
29. Salbutamol	synthesis
30. Adrenaline	I. Neutralises body acids
	J. Neutralises body alkalises

Questions 31-35 refers to this scenario: You read a pamphlet accompanying a certain drug, and you noted the following information, among others:

- Reconstitute the drug with 8mls of distilled water
- It is highly metabolised by the liver.
- It is mainly excreted in urine
- The half life is four (3) hours

Based on the given information, state whether each of the following statements is true (T) or false (F): Write the corresponding letter only, that is, T or F

- 31. This drug is meant for adult clients only.
- 32. The drug is contraindicated to people with renal failure
- 33. The drug should be taken with food
- 34. The drug has to be given more frequently
- 35. Its route of administration is only intravenous

SETION B: SHORT ESSAY QUESTIONS (40 MARKS)

Answer the following questions as asked. Figures in brackets indicate marks allocated for each question.

(a) A client is prescribed a furosemide infusion at a rate of 1.5mg/m	in. You have 250mg
of furosemide in 250mls of 0.9% normal saline. Calculate the dr	 -
assuming you are using the standard giving set. Show your work	ting. [3
(b) Outline any three (3) factors that influence your choice of the followample for each factor:	llowing, giving an
(i) The route of administering a drug	[6
(ii) The dose which you give to a client	[6]
(c) List any five anti-TB drugs that constitute first-line TB treatment	t, and for each state
one of its major side effects	[5]
	[Subtotal 20 Marks
A client who came presenting with difficulties in breathing and gene	eralised oedema was
commenced on digoxin and spironolactone	
(a) State one main indication of digoxin	[1]
(b) Briefly describe and explain the three (3) effects of digoxin on it	s main target organ(s
	[6]
(c) Based on the prescription, outline, with rationales, your nursing	considerations as you
care for the client	* [8]
(d) Why was it necessary to add spironolactone in this case?	[5]
	[Subtotal 20 Marks]
	assuming you are using the standard giving set. Show your work (b) Outline any three (3) factors that influence your choice of the forexample for each factor: (i) The route of administering a drug (ii) The dose which you give to a client (c) List any five anti-TB drugs that constitute first-line TB treatment one of its major side effects A client who came presenting with difficulties in breathing and generommenced on digoxin and spironolactone (a) State one main indication of digoxin (b) Briefly describe and explain the three (3) effects of digoxin on it care for the client