

**UNIVERSITY OF SWAZILAND**

**FACULTY OF HEALTH SCIENCES**

**SEMESTER I**

**DECEMBER 2010**

**FINAL EXAMINATION**

**COURSE TITLE : PHARMACOLOGY**

**COURSE CODE : NUR 203**

**TIME ALLOCATED : 2 HOURS**

**MARKS ALLOCATED: 75 MARKS**

**INSTRUCTIONS**

- 1. READ QUESTIONS AND INSTRUCTIONS CAREFULLY.**
- 2. ANSWER ALL THREE QUESTIONS.**
- 3. EACH CORRECT FACT IS WORTH ONE MARK UNLESS INDICATED OTHERWISE**
- 4. WRITE NEATLY AND CLEARLY.**
- 5. THIS EXAMINATION PAPER IS DIVIDED INTO TWO SECTIONS.**

**SECTION A: MULTIPLE CHOICE QUESTIONS.**

**SECTION B: SHORT ESSAY QUESTIONS.**

**THIS PAPER IS NOT TO BE OPENED UNTIL THE INVIGILATOR HAS GRANTED PERMISSION**

# QUESTION 1

## MULTIPLE CHOICE QUESTIONS

1. The bioavailability of the drug depends on the route by which the drug is administered; the percentage of the intravenous drugs bioavailability is as follows:
  - a. 80%
  - b. 60%
  - c. 100%
  - d. 90%
  
2. Some oral drugs are prescribed at higher doses than parenteral drugs that are equivalent to them because:
  - a. They are palatable
  - b. They have few side effects
  - c. Of their good absorbability
  - d. Of poor bioavailability
  
3. For patients who are on naso-gastric tube feeding, and get drugs through naso-gastric tube the following precaution should be adhered to. Tube feeding should be withheld before medication is given for the following length of time.
  - a. 1 ½ hours
  - b. 2 hours
  - c. 2 ½ hours
  - d. 1 hour
  
4. If the N.G. tube is hooked to suction it should be withheld after drug administration. The length of time for withholding suction should be:
  - a. 15 minutes
  - b. 10-20 minutes
  - c. 30-40 minutes
  - d. 20-30 minutes

5. **The muscle most often used for intramuscular, injection in children is:**
- Deltoid muscle
  - Rectus femoris
  - Vastus lateralis
  - Dorsogluteal muscle
6. **The following drugs are used for treating gout except:**
- Allopurinol
  - Probenecid
  - Sulfadiazine
  - Cokhicine
7. **Palliative drugs are sometimes called:**
- Substitutive drugs
  - Restorative drug
  - Symptomatic drug
  - Curative
8. **Supportive drugs are used to:**
- Support other drugs taken by the patient
  - Boost the drug bioavailability
  - Promote drug absorption
  - Sustain the patient until other measures can be instituted.
9. **Chronic smoking of marijeanas causes the following side effects.**
- Sinusitis
  - Bronchitis
  - Nose and throat inflammation
  - All of the above
10. **Schizophrenia symptoms may occur during the following years of age:**
- Between 15-20 years
  - Between 20-30 years
  - During middle age
  - At any age

11. The drug doxapram is a:
- Nervous system stimulant
  - Urinary system stimulant
  - Cardiac stimulant
  - Short acting respiratory stimulant.
12. Early symptoms of digoxin overdose include the following except:
- Anorexia
  - Abdominal pains and constipation
  - Abdominal pains and diarrhoea
  - Nausea and vomiting
13. The TB drugs that colour the tears saliva faeces, sweat, urine and sputum red range is:
- rimfapin
  - pyazinamide
  - Streptomycin
  - Ethambutol
14. Pessaries are example of the following drug route:
- Topical
  - Intradermal
  - Intravenous
  - Bumetamide
15. Diuretics include the following drugs except:
- Antihistamines
  - Furosamide
  - Thiazides
  - Bumetamide
16. Symptoms of food poison caused by staphylococcus, appear within the following hours after ingestion of contaminated food.
- 1-2 hours
  - 3 hours
  - 2-4 hours
  - 4-5 hours

17. Hookworms are treated with the following drugs except:
- Pyrantel pomate
  - Tetrachloethylene
  - Mebendazole
  - Pyrivinium pamoate
18. The drug of choice for taenias (tapeworms) is the following:
- Mebandazole
  - Pyrantel palmoate
  - Tetrachloroethylene
  - Niclosamide
19. The drug called Nitroglycerine is given through the following routes for immediate effect of hypertension
- Subcutaneously
  - Sublingually
  - Topically
  - Intradermally
20. Digoxin early symptoms of overdose include the following except:
- Abdominal pains and constipation
  - Anorexia
  - Nausea and vomiting
  - Abdominal pain and diarrhoea.
21. Salbutamol side effects include the following:
- Tarchycardia
  - Palpitations
  - High blood pressure
  - All of the above
22. Drugs used to treat patients with arrhythmias include the following except:
- Lindocaine
  - Greengline
  - Disopyramide
  - Lidnocaine

23. Cardiac glycosides are drugs of choice in the treatment of the following conditions.
- a. Valvular heart disease
  - b. Myocardial disease
  - c. Hypertension
  - d. All of the above
24. Nitroglycerine and any nitrate are used as:
- a. Diuretics
  - b. Respiratory stimulants
  - c. Urinary stimulant
  - d. Vaso-dilators
25. Ethambutol tablet is given to treat active tuberculosis through the following route:
- a. Intramusculate
  - b. Subcutaneously
  - c. Orally
  - d. Intrathecally.

[25]

## QUESTION 2

2.1 *In drug administrations growth and development should be considered in the pharmacokinetics of all drugs.*

*Describe the following:*

- a. Drug absorption in later maturity [6]
- b. Drug distribution in later maturity [12]

2.2 *Describe the Pharmacokinetics of Broncho-dilators*

- Absorption [4]
- Distribution [2]
- Metabolism [1]

[25]

## QUESTION 3

3.1 *Describe the drug called "aminophyllin" as follows:*

- a. Indications [4]
- b. Contra indications [4]

3.2 *Describe "antitussives" as follows:*

- a. Mechanism of action of antitussives [5]
- b. Contra indications of antitussives [2]

3.3 *Describe the drugs called "nitrates" as follows:*

- a. Side effects [7]
- b. Mechanism of action [3]

[25]