



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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REGINA PACIS INSTITUTE OF HEALTH SCIENCES

MAIN EXAMINATION

JANUARY – APRIL 2019 TRIMESTER

FACULTY OF SCIENCES

DEPARTMENT OF NURSING

REGULAR PROGRAMME

SPECIAL EXAMINATION

NUR 205: CLINICAL PHARMACOLOGY I

Date: APRIL 2019

Duration: 3 Hours

INSTRUCTIONS: Answer ALL Questions

MULTIPLE CHOICE QUESTIONS (MCQ)

(20 MARKS)

Q1. Changes in visual acuity and color perception are associated with treatment by which of the following agents?

- a) SM (streptomycin)
- b) ETH (ethambutol)
- c) INH (isoniazid)
- d) PZA (pyrazinamide)

Q2. The name selected by the original manufacturer based on the chemical structure of the drug is the:

- a) Chemical name
- b) Drug name
- c) Generic name
- d) Trade name

Q3. Interaction of one drug increased by the presence of a second drug is known as:

- a) Potentiation
- b) Addictive effect
- c) Antagonism
- d) Synergism

- Q4. When a drug is 50% protein bound, it means that:
- a) 50% of the drug destroys protein
 - b) 50% of the dose is at work
 - c) 50% of the drug is excreted in the kidneys
 - d) Protein must be restricted in the diet
- Q5. The extent to which drug is absorbed and transported to target tissue is known as:
- a) Steady-state accumulation
 - b) Therapeutic drug levels
 - c) Bioavailability
 - d) Distribution
- Q6. An unexpected effect of the drug is known as a:
- a) Side effect
 - b) Adverse effect
 - c) Toxic reaction
 - d) Allergic reaction
- Q7. When considering the pharmacotherapeutic effects of drugs administered to clients, the nurse considers which property of most importance:
- a) Efficacy
 - b) Interaction with other drugs
 - c) Potency
 - d) Toxicity
- Q8. Indicate true or false
- a) Ceftriaxone is a third-generation cephalosporin
 - b) Fourth generation cephalosporins have a better gram negative coverage
- Q9. The antiretroviral agent that has recently been recalled from the market is:
- a) Dolutegravir (DTG)
 - b) Enfuvirtide (T-20)
 - c) Enfivirenz(EFV)
 - d) Ritonavir (RTV)

Q10. Match the drug in column A and the appropriate indication in column B

COLUMN A	COLUMN B
a. Pentamidine	i Trypanosomiasis
b. Sodium stibogluconate	ii -leishmaniasis
c. Mefloquin	iii Tuberculosis
d. Amikacin	iv Malaria

Q11. Which of the following anti-asthma drugs is bronchodilator?

- a) Nedocromil
- b) Theophylline
- c) Montelukast
- d) Hydrocortisone

Q12. Identify the anti-Asthma drug which is Beta adrenoceptor agonist.

- a) Ipratropium
- b) Nedocromil
- c) Salbutamol
- d) Montelukast

Q13. Which of the following enzymes is responsible for processing HIV proteins during the production of new viruses?

- a) Integrase
- b) Protease
- c) Reverse transcriptase
- d) DNA polymerase

Q14. Which of the following GIT drugs is a Proton pump inhibitor?

- a) Cimetidine
- b) Omeprazole
- c) Sucralfate
- d) Metoclopramide

Q15. Which one of the following laxative drugs is gastro-intestinal (GI) stimulant?

- a) Methylcellulose
- b) Magnesium oxide
- c) Senna
- d) Alvimopan

Q16. The most potent drug for prevention of motion sickness is

- a) Dimenhydrinate

- b) Ondansetron
- c) Scopolamine
- d) Metoclopramide

Q17. Anaemia is most common with one of the following Antiretroviral drug.

- a) Stavudine
- b) Zidovudine
- c) Nevirapine
- d) Didanosine

Q18. Concerning drug pharmacokinetics :

- a) Capsules are absorbed faster than liquids and syrups
- b) Plasma protein binding by albumin is best for acidic drugs
- c) Blood brain barrier allows distribution of only water soluble drugs
- d) Cytochrome P-450 enzymes catalyze phase 1 metabolic reactions

Q19. Identify the right statement concerning antibiotics:

- a) Organisms develop resistance faster to the synthetic antibiotics than natural antimicrobials.
- b) Natural antibiotics are often more toxic than synthetic antibiotics.
- c) All Antibiotics have a bactericidal effect.
- d) All antibiotics have a bacteriostatic effect

Q20. Which of the following GIT drugs is a Proton pump inhibitor?

- a) Cimetidine
- b) Omeprazole
- c) Sucralfate
- d) Metoclopramide

SHORT ANSWER QUESTION (SAQ)

40 MARKS

Q1. Outline the nursing responsibilities for a patient on benzyl penicillin **(5 marks)**

Q2. Describe the details you establish when assessing a patient's drug history

(5marks)

Q3. State four nursing diagnosis for a patient receiving gentamycin **(4 marks)**

Q4. State four drugs that are used to treat amoebiasis **(4 marks)**

Q5. State four (4) of the main goals of Antiretroviral therapy **(4 marks)**

Q7. Discuss the factors affecting choice of an antibiotic **(6 marks)**

Q8. Outline four (4) unwanted effects of drugs (4 marks)

Q9. Explain two factors influencing individual response to drugs (4 marks)

Q10. State four therapeutic uses of alternative therapies (4 marks)

LONG ANSWER QUESTION (SAQ) _____ 40 MARKS

Q1. Describe five pharmacodynamics drug interactions (10 marks)

Q2. Classify peptic Ulcer drugs and give an example in each class (10 marks)

Q3. Discuss the application of nursing process in drug therapy (20 marks)