

KENYA MEDICAL TRAINING COLLEGE **FACULTY OF NURSING**

PERIOD:

END OF SE EXAMINATION FOR

CLASS:

KRCHN (SEPTEMBER 2018

SUBJECT: PHARMACOLOGY CAT

DATE: JUNE 2019

TIME: 2 HOURS

INSTRUCTIONS TO THE CANDIDATES

- 1. ENTER YOUR EXAMINATION NUMBER on every sheet of paper used
- 2. READ THE QUESTION carefully and answer only WHAT IS ASKED
- 3. FOR MULTIPLE CHOICE QUESTIONS write the correct answer in CAPITAL LETTERS
- 4. FOR SHORT ANSWER THE QUESTIONS, follow the instructions given by the invigilator
- 5. FOR LONG ANSWER QUESTIONS, answer each question on a separate sheet of paper
- 6. Mobile phones and smart watches are NOT allowed in the examination hall

PHARMACOLOGY FOR NURSES CAT SEPTEMBER 2018 CLASS What term is used to describe a more gradual decrease in responsiveness to a drug, taking days or weeks to develope b) Cumulative effect - Pete of Alson the Source that rate of Assumer that rate of Tolerance.

d) Tachyphylic taking days or weeks to develop? d) Tachyphylaxis - Acute to were. 2. Pharmacodynamics involves the study of following:

Mechanisms of drug action

b) Biotransformation of drugs in the organism. The phomescale when a phomescale with the organism.

c) Distribution of drugs in the organism

d) Excretion of drug from the organism

3. An agonist is a substance that:

a) Interacts with the receptor without producing any effect

b) Increases concentration of another substance to produce effect,

c) Interacts with plasma proteins and doesn't produce any effect

d) Interacts with the receptor and initiates changes in cell function, producing various effects

4. An antagonist is a substance that:

a) Binds to the receptors and initiates changes in cell function,

b) Binds to the receptors and initiates changes in cell function, producing submaximal

c) Interacts with plasma proteins and doesn't produce any effect

a) Binds to the receptors without directly altering their functions

5. Half- life (t 1/2) is the time required to:

a) Change the amount of a drug in plasma by half during elimination

b) Metabolize a half of an introduced drug into the active metabolite

c) Absorb a half of an introduced drug

d) Bind a half of an introduced drug to plasma proteins

6. If two drugs with the same effect, taken together, produce an effect that is equal in magnitude to the sum of the effects of the drugs given individually, it is called as:

a) Antagonism (

b) Potentiation

c) Additive effect

None of the above , (Syvernism)

7. What does the term "potentiation" mean? a) Cumulative ability of a drug b) Hypersensitivity to a drug c) Fast tolerance developing Intensive increase of drug effects due to their combination 8. Idiosyncratic reaction of a drug is: a) A type of hypersensitivity reaction b) A type of drug antagonism c) Unpredictable, inherent, qualitatively abnormal reaction to a drug d) Quantitatively exaggerated response 9. A competitive antagonist is a substance that: a) Interacts with receptors and produces submaximal effect b) Binds to the same receptor site and progressively inhibits the agonist response v c) Binds to the nonspecific sites of tissue d) Binds to one receptor subtype as an agonist and to another as an antagonist Tolerance and drug resistance can be a consequence of: 10. Change in receptors, loss of them or exhaustion of mediators Increased receptor sensitivity Decreased metabolic degradation Decreased renal tubular secretion 11. The most rapid eliminated drugs are those with high glomerular filtration rate and actively secreted but aren't passively reabsorbed: a) True b) False 12. Biotransformation of the drugs is to render them: a) Less ionized b) More pharmacologically active c) More lipid soluble d) Less lipid soluble 13. Parenteral administration: a) Cannot be used with unconsciousness patients b) Generally results in a less accurate dosage than oral administration Usually produces a more rapid response than oral administration d) Is too slow for emergency use 14. The main mechanism of most drugs absorption in GI tract is: a) Active transport (carrier-mediated diffusion) b) Filtration (aqueous diffusion) c) Endocytosis and exocytosis d) Passive diffusion (lipid diffusion)

a) Transport of drugs through a membrane by means of diffusion (15. The term "active transport" means:

c) Engulf of drug by a cell membrane with a new vesicle formation

- d) Transport against concentration gradient
- 16. Drug resistance is a term used to describe the loss of effectiveness of antimicrobial drugs. This consideration is:
 - a) True

- 17. The following drug is associated with the reaction of extreme photosensitivity:
 - a) Digitalis -
 - b) Niacin
 - c) Tetracycline ~
 - d) Fluoroquinolones
- 18. An antagonist is a substance that:
 - a. Binds to the receptors and initiates changes in cell function, producing maximal effect
 - b. Binds to the receptors and initiates changes in cell function, producing
 - c. Interacts with plasma proteins and doesn't produce any effect
 - d. Binds to the receptors without directly altering their functions
- 19. Give the definition for a therapeutical dose:
 - a) The amount of a substance to produce the minimal biological effect
 - b) The amount of a substance to produce effects hazardous for an organism,
- c) The amount of a substance to produce the required effect in most patients. d) The amount of a substance to accelerate an increase of concentration of 20. Pick out the correct definition of a toxic dose:
- - a) The amount of substance to produce the minimal biological effect
 - b) The amount of substance to produce effects hazardous for an organism c) The amount of substance to produce the necessary effect in most of
- d) The amount of substance to fast creation of high concentration of medicine 21. Norepinephrine produces:
 - a) Vasoconstriction
 - b) Vasodilatation
 - c) Bronchodilation...
 - d) Decreased potassium concentration in the plasma ~

22. Which of the following property combinations is peculiar to the majority of NSAIDs? a) Antihistaminic, antipyretic, analgesic b) Immuno-depressive, anti-inflammatory, analgesic c) Antipyretic, analgesic, anti-inflammatory d) Anti-inflammatory, immunodepressive, antihistaminic 23. The following NSAIDs is a propionic acid derivative: a) Ibuprofen 🗸 b) Indomethacin c) Metamizole (Analgin) d) Diclofenac 24. Which of the following NSAIDs is a selective COX-2 inhibitor? a. Piroxicam b. Indomethacin c. Celecoxib d. Diclofenac 25. Side effects of aspirin include following: Gastric upset (intolerance) Salicylism (vomiting, tinnitus, decreased hearing, and vertigo) c. Gastric ulcers and upper gastrointestinal bleeding d. All of the above 26. Indicate whether true or false: Allergic reaction is: a) A local or generalized reaction of an organism to internal or external contact with a specific allergen to which the organism has been previously sensitized # b) A localized protective reaction of tissue to irritation, injury, or infection, characterized by pain, redness, swelling, and sometimes a loss of function 27. The following groups of antibiotics demonstrates a bactericidal effect: a) Tetracyclines - ladenostetic. b) Macrolides - Secten ostetic c) Penicillins · d) All of the above 28. Bacteristatic effect is: a) Inhibition of bacterial cell division b) Inhibition of young bacterial cells growth c) Destroying of bacterial cells d) Formation of bacterial L-form

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29. Tick the drug belonging to antibiotics-macrolides: ACE
a) Neomycin /
b) Doxycycline
a) Erythromycin a) Erythromycin B) Rifampin — by Rifamphenicol
d) Cerotaxime
a) Erythromycin - white project of the secretary - beten and
by Difampin - by Llocking LNA Treatment
c) Chloramphenicol
d) Imininem - Caralana
31. A patient is placed on a multi-drug regimen including bismuth for peptic ulcer
disease. The nurse should instruct the patient that:
a) One week of therapy should heal ulcers and relieve symptoms.
b) When symptoms resolve, the ulcer will be healed.
The tongue and stool may turn black on bismuth.
d) Single drug therapy is preferable. 32. A patient on anti-ulcer therapy complains of reduced libido and impotence. The
32. A patient on anti-uicer therapy complains of reduced math.
nurse informs him that it may be associated with:
b) Cimetidine - I spem and
b) Cimetidine
c) Ranitidine
d) Farnotidine
Antibiotics inhibiting the bacterial cell wall synthesis are:
a) Beta-lactam antibiotics
b) Totracyclines - IMANO 7 MAN
a) Aminoalycocides = (NFC)
d) Macrolides - With
The following drugs is a gastric acid resistant:
34. Penicillin G Lengal penicin
34. The following drugs is a gastric acid resistant: a) Penicillin G beneating penicilin b) Penicillin V phenoxy methyl penicin
by Penicillin V Precions
c) Carpenicillin
d) Procain penicillin (0 - windx 20.
THE CAMBIDATION OF SHIPPINGS WHEN CHILDREN
a) Decreases the unwanted effects of suiforial fides
b) Decreases the antimicrobial activity
c) Thereases the antimicrobial activity
d) Increases the elimination of sulfonamides
d) Thereases the similar to

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