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Fulcher: Pharmacology, 3rd Edition

Chapter 02: Basics of Pharmacology

Test Bank

MULTIPLE CHOICE

- 1. Component(s) of medications include all of the following EXCEPT
- a. active chemical ingredient
- b. inactive medicinal ingredient
- c. inert ingredients
- d. flavorings
- e. preservatives

ANS: B REF: 22

- 2. Drugs may be found from all of the following sources EXCEPT
- a. plants
- b. minerals
- c. gene splicing
- d. gums
- e. air

ANS: E REF: 23

- 3. Factors concerning drug absorption that are important in patient teaching are
- a. maintaining the proper acidity of the stomach for absorption
- b. whether food is present in the stomach or not
- c. formula and milk products with the infant and small child
- d. all of the above
- e. a and b

ANS: D REF: 25-27

- 4. Factors concerned with percutaneous absorption include the
- a. length of time the medication is in contact with the skin
- b. moisture level of the skin
- c. depth of respirations
- d. blood supply to the area
- e. all of the above

ANS: E REF: 25-26

- 5. The amount of drug circulating in the body is called the drug's
- a. half-life

- b. distribution rate
- c. blood level
- d. accumulation point

ANS: C REF: 27

- 6. Drug distribution is affected by
- a. the blood-brain barrier
- b. the lipid solubility of the drug
- c. the protein binding of the drug
- d. placental barriers
- e. all of the above

ANS: E REF: 27

- 7. Metabolism is
- a. also called biotransformation where the drug is detoxified
- b. a series of reactions to chemically change the medication
- c. necessary to prevent eventual harm to the person
- d. all of the above
- e. a and c

ANS: D REF: 27

- 8. Which of the following is NOT necessary in patient teaching concerning the excretion of medications?
- a. Exercise has no effect on the excretion of medications.
- b. Increased fluid intake assists with the excretion of drugs.
- c. A poor diet slows the excretion of medications.
- d. Laxatives may increase the excretion of medications.
- e. Pregnant and nursing mothers should discuss any medications, including OTC drugs, with their physician before taking.

ANS: A REF: 27

- 9. Which of the following are considered the major drug actions?
- a. depression, stimulation, irritation, demulcence
- b. depression, stimulation, demulcence
- c. depression, stimulation, irritation
- d. depression and stimulation
- e. stimulation

ANS: A REF: 29

- 10. Absorption rates of oral medications from fastest to slowest are
- a. liquids, capsules, coated tablets, tablets

- b. capsules, tablets, suspensions, liquids
- c. liquids, capsules, suspensions, tablets
- d. liquids, suspensions, capsules, tablets

ANS: D REF: 25

- 11. All of the following are true about pharmacotherapeutics EXCEPT drugs are used to
- a. cure a disease
- b. diagnose a disease
- c. prevent diseases
- d. always produce the desired effects
- e. decrease symptoms of diseases

ANS: D REF: 29

- 12. Adverse reactions should be charted in
- a. red ink
- b. black ink
- c. an obvious place on the patient record
- d. a and c
- e. b and c

ANS: D REF: 30

- 13. Drug interactions may occur in the form of interactions.
- a. drug-drug
- b. nutrient-drug
- c. disease drug
- d. a and c
- e. a, b, and c

ANS: E REF: 32

- 14. Which of the following statements are true about medications?
 - 1. Drugs are aids in maintaining the highest degree of homeostasis following a decline in optimal body function.
 - 2. Drugs are dangerous when used unwisely and with unnecessary dependence.
 - 3. Drugs may cause irreversible harm if used unwisely.
 - 4. Mental states of the patient do not influence the use of medications.
- a. 1, 2, 4
- b. 1, 3, 4
- c. 2, 3, 4
- d. 1, 2, 3

ANS: D REF: 22

TRUE/FALSE

1.	A drug	is a	chemical	that	is used	for	therapeutic	application.
	11010	10 0		CIICU	10 0,000	101	morapean	appiroution.

ANS: T REF: 29

2. The solubility of a drug has nothing to do with the rate of its absorption.

ANS: T REF: 29

3. The amount of blood flow to an area is important in drug absorption.

ANS: T REF: 29

4. Substances that are lipid soluble are slowly absorbed by the patient.

ANS: F REF: 29

5. Food may serve as a buffer for medications that tend to irritate the stomach.

ANS: T REF: 29

6. Drugs may have selective distribution to only certain organs.

ANS: T REF: 29

7. The speed of metabolism is not considered when prescribing medications.

ANS: F REF: 29

8. The half-life of a drug is the time needed for half of the drug to be inactivated by the body.

ANS: T REF: 29

9. Drugs will usually affect only one body tissue or target organ.

ANS: F REF: 29

10. Anaphylaxis is a possible allergic response with any medication and may be fatal.

ANS: T REF: 29

11. The pH in the stomach affects the solubility absorption of a medication.							
ANS: T	REF: 29						
12. A drug can be distributed throughout the body prior to entering the bloodstream.							
ANS: F	REF: 30						
13. Inhalation is one of the most rapid forms of medication administration and absorption.							
ANS: T	REF: 30						

14. Initial doses of medication may be increased to assist with a more rapid and therapeutic effect of the drug.

ANS: T REF: 30

15. Lipid soluble medications are more rapidly absorbed into and excreted from the body.

ANS: F REF: 30

16. Side effects of medications are reasons for not prescribing medications for all medical conditions.

ANS: F REF: 30

17. Adverse reactions to medications may be harmful and must always be evaluated to maintain patient safety with medication administration.

ANS: T REF: 32

18. Drugs have no single action but are prescribed for a desired effect or expected action.

ANS: T REF: 32

19. Recombinant DNA technology uses artificially manipulated DNA segments for transfer from a cell of one species to a host cell of the same species.

ANS: F REF: 32

20. All medications should be taken on an empty stomach.

ANS: F REF: 32

21. A free or unbound drug is the amount of the medication that has not attached to a receptor site.

ANS: T REF: 32

22. A drug half-life is the time needed for the body to metabolize half the drug.

ANS: F REF: 32

23. Nutrient-drug interactions will prevent the absorption of medications so patient education on these interactions, especially with grapefruit, is important.

ANS: T REF: 32

MATCHING

Match the following terms with their descriptions below. (Terms will be used more than once.)

- a. usage
- b. indications
- 1. Manifestations of illnesses that present signs and symptoms for medication use
- 2. Prescribing and practicing application of medication for a given purpose
- 3. Prescribing diuretics for blood pressure and edema
- 4. Taking ibuprofen for arthritis-type pain
- 1. ANS: B REF: 32
- 2. ANS: A REF: 32
- 3. ANS: B REF: 32
- 4. ANS: A REF: 22-23

Match the following terms with their descriptions below. (Some terms will be used more than once.)

- a. therapeutic
- b. diagnostic
- c. destructive
- d. pharmacodynamic
- e. prophylactic

- 5. Prevents illness or disease from occurring
- 6. Used to help in patient examination or to find the nature or extent of a condition
- 7. Alters body function in some way
- 8. Relieves symptoms, fights illness, reverses disease processes
- 9. Used to destroy bacteria or cells
- 10. Agents used for normal growth and body function, including regulation of metabolism
- 11. Germicides, antiseptics, and immunizing agents
- 5. ANS: E REF: 22-23
- 6. ANS: B REF: 22-23
- 7. ANS: D REF: 22-23
- 8. ANS: A REF: 22-23
- 9. ANS: C REF: 22
- 10. ANS: A REF: 23
- 11. ANS: C REF: 23

- a. replacement
- b. supplemental
- c. maintenance
- d. supportive
- e. palliative
- 12. Prescribed to maintain homeostasis
- 13. Use of hormones for homeostasis, such as thyroid extracts and estrogens in menopause
- 14. Medications to keep the body in homeostasis with chronic conditions or with surgical removal of organs
- 15. Drugs prescribed to avoid deficiencies or to reinforce body chemicals
- 16. Drugs that reduce the severity of a condition but do not provide a cure

- 12. ANS: D REF: 23
- 13. ANS: A REF: 23
- 14. ANS: C REF: 22
- 15. ANS: B REF: 22
- 16. ANS: E REF: 33

Match the following terms with their descriptions below.

- a. agonists
- b. antagonists
- c. chelators
- d. local action
- e. systemic action
- 17. Medications that have a site of action throughout the body and not at the site of administration
- 18. Drugs that stimulate the receptor site and work with the body to mimic its function
- 19. Drugs that are used to treat metal poisoning
- 20. Drugs that work at the place of administration
- 21. Drugs that attach strongly and do not produce a chemical reaction but prevent other drugs from attaching to the receptor site
- 17. ANS: E REF: 33
- 18. ANS: A REF: 33
- 19. ANS: C REF: 33
- 20. ANS: D REF: 33
- 21. ANS: B REF: 22

- a. synergism
- b. potentiation
- c. antagonism
- d. drug idiosyncrasies
- e. cumulative effect

- 22. Two or more drugs that cancel or decrease the effects of each
- 23. Two or more drugs that work together to increase the effects of another or make a stronger effect
- 24. The inability of the body to metabolize or excrete a drug dose before another dose is given
- 25. A drug that multiplies the effects or prolongs the effects of another
- 26. An unexpected response to a medication
- 22. ANS: C REF: 23
- 23. ANS: A REF: 23
- 24. ANS: E REF: 28
- 25. ANS: B REF: 30
- 26. ANS: D REF: 35

- a. ideal drug
- b. safe drug
- c. recombinant DNA technology
- d. synthetic drugs
- e. alkaloids
- 27. Genetic engineering used to produce drugs
- 28. A drug that causes no harmful effects
- 29. A drug that has all of the qualities of effectiveness and safety
- 30. Organic compounds that are alkaline in nature and combined with acids to make salts
- 31. Drugs produced by chemists from living or nonliving materials
- 27. ANS: C REF: 25
- 28. ANS: B REF: 25
- 29. ANS: A REF: 26
- 30. ANS: E REF: 26

31. ANS: D REF: 27

Match the following terms with their descriptions below.

- a. pharmacognosy
- b. pharmacokinetics
- c. pharmacotherapeutics
- d. pharmacodynamics
- e. toxicology
- f. clinical pharmacology
- g. therapeutics
- 32. The action of drugs on the body
- 33. The effects of drugs on the body
- 34. The origin of drugs
- 35. The poisonous effects of drugs on the body
- 36. How drugs are processed by the body
- 37. Use of drugs to diagnose, prevent, and treat diseases or to prevent pregnancy
- 38. Study of drugs in humans
- 32. ANS: D REF: 27
- 33. ANS: C REF: 27
- 34. ANS: A REF: 27
- 35. ANS: E REF: 31
- 36. ANS: B REF: 25-26
- 37. ANS: G REF: 27
- 38. ANS: F REF: 26

- a. synergism
- b. cumulation
- c. summation
- d. antagonism
- e. tolerance

39. Accumulation of a drug in the body because a new dose is given before the excretion of the previous dose

- 40. Adding one drug to another with the effects of both being the same as if given separately
- 41. The lessened effect of a drug that has been taken for a prolonged period of time
- 42. Adding two drugs together to potentiate their individual effects
- 43. Giving two drugs together to decrease the effects of one of the medications
- 39. ANS: B REF: 27
- 40. ANS: C REF: 26
- 41. ANS: E REF: 28
- 42. ANS: A REF: 30
- 43. ANS: D REF: 28

- a. desired effect
- b. side effect
- c. adverse reaction
- d. toxicity
- e. allergic reaction
- 44. An unintended, undesirable, and unpredictable effect
- 45. The expected response to a drug
- 46. The level above which the desired therapeutic dose has been reached and poisonous effects occur
- 47. A mild but annoying response to a drug
- 48. Hypersensitivity to a medication
- 44. ANS: C REF: 35
- 45. ANS: A REF: 33
- 46. ANS: D REF: 27

47. ANS: B REF: 27

48. ANS: E REF: 33