Chapter 01
Introduction to Pharmacology

Multiple Choice Questions

1. Pharmacokinetics is the area of pharmacology that deals with the study of:
A. the processes of drug absorption, distribution, metabolism, and excretion.
B. the action of drugs on living tissue.
C. the use of drugs in treating disease.
D. the harmful effects of drugs on living tissue.

Pharmacokinetics is the area of pharmacology that deals with the study of the processes of drug absorption, distribution, metabolism, and excretion.

ABHES: 6.a. Identify drug classification, usual dose, side effects, and contraindications of the top most commonly used medications
Blooms: Remember
CAAHEP: I.C.11.a. Identify the classifications of medications including indications for use
Difficulty: 1 Easy
Learning Outcome: 01.01

2. Which of the following is an example of a drug derived from a plant?
A. Insulin
B. Digitalis
C. Cephalosporin
D. Estradiol

Examples of drugs derived from plants that are still widely used today include the analgesics morphine and codeine, which were obtained from the poppy plant *(Papver somniferum)*; the heart drug digitalis, which was obtained from the purple foxglove *(Digitalis purpurea)*; and the antimalarial drug quinine, which was obtained from the bark of the cinchona tree.

ABHES: 6.a. Identify drug classification, usual dose, side effects, and contraindications of the top most commonly used medications
Blooms: Remember
CAAHEP: I.C.11.a. Identify the classifications of medications including indications for use
Difficulty: 1 Easy
Learning Outcome: 01.01

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3. Today, new drugs are mainly derived from:
A. chemical synthesis.
B. animals.
C. plants.
D. enzymatic synthesis.

 Despite the many examples of drugs obtained from plants and living organisms, the main source of new drugs today is from chemical synthesis.

ABHES: 6.a. Identify drug classification, usual dose, side effects, and contraindications of the top most commonly used medications
Blooms: Remember
CAAHEP: I.C.11.a. Identify the classifications of medications including indications for use
Difficulty: 1 Easy
Learning Outcome: 01.01

4. Which of the following statements is true of toxicity?
A. Toxic effects refer to those effects triggered by drugs that are undesirable but not harmful.
B. The toxic effects of a drug can be life-threatening.
C. The toxic effects of a drug can be controlled by increasing the dosage of the drug.
D. Patients are often advised to tolerate the toxicity of a drug in order to benefit from the drug's therapeutic actions.

 Toxic effects, or toxicity, implies drug poisoning, the consequences of which can be extremely harmful and may be life-threatening.

ABHES: 6.d. Properly utilize Physician's Desk Reference (PDR), drug handbook and other drug references to identify a drug's classification, usual dosage, usual side effects, and contraindications.
Blooms: Understand
CAAHEP: I.C.11.a. Identify the classifications of medications including indications for use
Difficulty: 2 Medium
Learning Outcome: 01.02

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5. Which of the following statements is true of a drug?
A. The effects produced by a drug are always desirable.
B. The properties of a drug do not influence the effects it produces.
C. A drug does not produce more than one effect.
D. A pure drug is a chemical compound with a specific chemical structure.

 Every pure drug is a chemical compound with a specific chemical structure.

ABHES: 6.a. Identify drug classification, usual dose, side effects, and contraindications of the top most commonly used medications
Blooms: Understand
CAAHEP: I.C.11.a. Identify the classifications of medications including indications for use
Difficulty: 2 Medium
Learning Outcome: 01.02

6. Maria visits Dr. John's clinic for a medical consultation. After learning that Maria has been experiencing a severe case of cold and cough, Dr. John conducts a thorough physical examination and prescribes a cough syrup and cetirizine tablets for her symptoms. A few days later, Maria calls Dr. John and informs him that the medication has been making her feel drowsy. How is Dr. John most likely to respond?
A. He will ask Maria to start taking a different dosage of cetirizine.
B. He will advise Maria to bear with the effects of the medication in order to benefit from its therapeutic actions.
C. He will advise Maria to stop taking the tablets immediately and to visit his clinic for another examination.
D. He will ask Maria to stop taking the drug and immediately rush to her house to administer an antidote.

 In this case, Maria is most likely experiencing the side effects of the drug. Many side effects are more of a nuisance than they are harmful. Dr. John will advise Maria to bear with the side effects of the medication in order to benefit from its therapeutic actions.

ABHES: 6.a. Identify drug classification, usual dose, side effects, and contraindications of the top most commonly used medications
Blooms: Analyze
CAAHEP: I.C.11.c. Identify the classifications of medications including side effects
Difficulty: 3 Hard
Learning Outcome: 01.02

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