## **Moscou: Pharmacology for Pharmacy Technicians**

**Test Bank** 

## **Chapter 2: Principles of Pharmacology**

## TRUE/FALSE

1. The body has to metabolize a drug before it is eliminated.

ANS: T

The body metabolizes the drug and then it is eliminated.

DIF: Cognitive level 2: Interpretation REF: p. 22

2. Drugs that are administered subcutaneously are completely absorbed into the bloodstream given they are injected directly into the vein.

ANS: F

Drugs that are administered intravenously are completely absorbed into the bloodstream given they are injected directly into the vein.

DIF: Cognitive level 2: Interpretation REF: p. 22

3. It is difficult for lipid-soluble drugs to move across a membrane.

ANS: F

Lipid-soluble drugs can move easily across the cell membrane.

DIF: Cognitive level 1: Recall REF: p. 26

4. Most drugs are transported by passive transport.

ANS: T

Most drugs are transported by passive transport.

DIF: Cognitive level 2: Interpretation REF: p. 25

5. Absorption is greatest when the body has a good oxygen supply.

ANS: F

Absorption is greatest in areas of the body that have a good blood supply.

DIF: Cognitive level 1: Recall REF: p. 26

## MULTIPLE CHOICE

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Test Bank 2-2

6.	The pharmacokinetic phases control the of the drug's effect and the of the drug action.  a. intensity, duration  b. duration, effect  c. mechanism, safety  d. length, efficacy						
ANS: A These pharmacokinetic phases control the intensity of the drug's effect and duration of the drug action.							
	DIF: Cognitive level 2: Interpretation REF: p. 22						
7.	The time it takes for a drug to reach the concentration necessary to produce a therapeutic effect is called the  a. duration of action  b. mechanism of action  c. onset of action  d. length of action						
	ANS: C The time it takes for a drug to reach the concentration necessary to produce a therapeutic effect is called the onset of action.						
	DIF: Cognitive level 2: Interpretation REF: p. 22						
8.	Duration of action is the time between the of action and of drug action.  a. mechanism, duration  b. onset, discontinuation  c. duration, concentration  d. onset, mechanism						
	ANS: B Duration of action is the time between the onset of action and discontinuation of drug action.						
	DIF: Cognitive level 2: Interpretation REF: p. 22						
9.	How quickly or slowly a drug is absorbed is determined by the  a. characteristics of the drug  b. drug dosage form  c. route of administration  d. all of the above  ANS: D						

Test Bank 2-3

How quickly or slowly a drug is absorbed is determined by the characteristics of the drug, drug dosage form, route of administration, and human anatomy and physiology.

	DIF:	Cognitive level 1: Recall	REF:	p. 22	
10.	the dru a. Pa b. Ac c. Dr	etive	special c	carrier proteins or pumps to "carry	
		B e transport takes energy and requires ug" across the cell membrane	special	carrier proteins or pumps to "carry	
	DIF:	Cognitive level 1: Recall	REF:	p. 25	
11.	the dru a. pro b. pH c. pro	polity of a drug to diffuse across the coug and the of the body fluid it operties, actions I, actions Operties, pH The rength, health		1 1	
	ANS: C The ability of a drug to diffuse across the cell membrane is dependent upon properties of the drug and the pH of the body fluid it is dissolved in.				
	DIF:	Cognitive level 2: Interpretation	REF:	p. 26	
12.	A pH a. 10 b. 7 c. 3 d. 5	of is neutral.			
	ANS:	B of 7 is neutral.			
	DIF:	Cognitive level 1: Recall	REF:	p. 26	
13.	a. sm		greatest	in the	

Test Bank 2-4

	ANS: A Absorption of orally administered drugs is greatest in the small intestine.					
	DIF: Cognitive level 1: Recall REF: p. 26					
14.	Distribution of the drug across the cell membrane of the blood vessel and transposition its site of action are influenced by the nature of the drug.  a. physical b. mechanical c. chemical d. ionic	ort				
	ANS: C Distribution of the drug across the cell membrane of the blood vessel and transp to its site of action are influenced by the chemical nature of the drug.	ort				
	DIF: Cognitive level 2: Interpretation REF: p. 29					
15.	Albumin has the greatest affinity for acids and drugs.  a. weak, lipophilic  b. strong, hydrophilic  c. weak, hydrophobic  d. strong, lipophobic					
	ANS: C Albumin has the greatest affinity for weak acids and hydrophobic drugs.					
	DIF: Cognitive level 1: Recall REF: p. 29					
16.	Anatomical structures that selectively limit drug access are the  a. blood-brain barrier  b. blood-placenta barrier  c. blood-testicular barrier  d. all of the above  ANS: D					
	Anatomical structures that selectively limit drug access are the blood-brain barr blood-placenta barrier, and blood-testicular barrier.	ier,				
	DIF: Cognitive level 1: Recall REF: p. 26					
17.	Drugs listed in category should be avoided because fetal abnormalities h been reported.  a. X  b. B  c. C  d. A	ave				

	Test Bank	2-5				
	ANS: A Drugs listed in category X should be avoided because fetal abnormalities have been reported.					
	DIF: Cognitive level 1: Recall REF: p. 30					
18.	are drugs that are administered in an inactive form and must be metabolized to their active form.  a. Metabolites b. Prodrugs c. Lipophilics d. Hydrophobics					
ANS: B Prodrugs are drugs that are administered in an inactive form and must be metabolized to their active form.						
	DIF: Cognitive level 2: Interpretation REF: p. 32					
19.	and require lower doses of drug to produce therapeutic effects.  a. Infants, the elderly  b. Teenagers, the elderly  c. Children, adults  d. Infants, children					
	ANS: A Infants and the elderly require lower doses of drug to produce therapeutic effects.					
	DIF: Cognitive level 2: Interpretation REF: p. 33					