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#### **CHAPTER 1**

### **Understanding Drug-taking Behavior**

### **Chapter 1 Multiple Choice**

Select the correct answer. (Difficulty levels: Basic, Intermediate, Difficult)

- 1. According to the text, drugs such as alcohol and nicotine are referred to as:
  - a. illegal drugs
  - b. licit drugs
  - c. illicit drugs
  - d. over the counter drugs

Answer: b - licit drug

Objective: Basic terminology concerning drugs and drug taking behavior

Page number: 4

Level: Basic

- 2. Instances in which a prescription or nonprescription drug is used in an inappropriate way are regarded as:
  - a. illicit drug taking behavior
  - b. illegal drug use
  - c. drug misuse
  - d. drug abuse

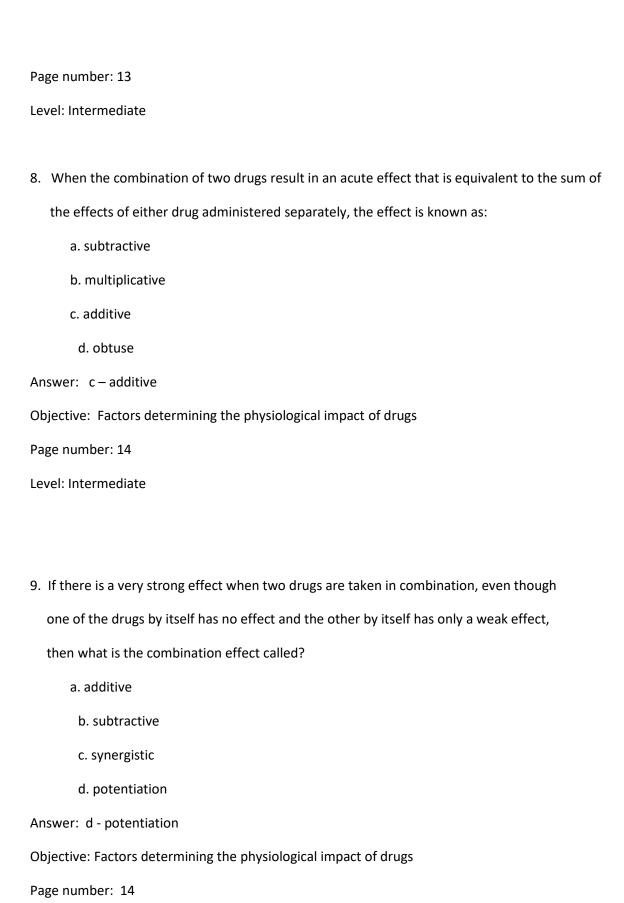
Answer: c – drug misuse

Objective: Basic terminology concerning drugs and drug taking behavior

Page number: 7

Level: Basic
3. William is prescribed a drug from his doctor, and then prescribed a different drug from his dentist. He did not tell either doctor about the other prescription. Unfortunately, when taken together, drug one cancels out drug two, so the secondary drug has no effect. This type of drug effect is:
a. sublingual
b. subtractive
c. synergistic
d. biotransformation
Answer: c. synergistic
Objective: The ways drugs enter and exit the body
Page number: 14
Level: Intermediate
4. Which of the following forms of drug administration is the fastest?
a. intravenous
b. oral
c. intramuscular
d. sublingual
Answer: a - intravenous
Objective: The ways drugs enter and exit the body
Page number: 10
Level: Basic
5. A transdermal patch works through the principle of what route of administration?
a. inhalation

b. oral absorption
c. absorption through the skin
d. absorption through the muscle
Answer: c – absorption through the skin
Objective: The ways drugs enter and exit the body
Page number: 11
Level: Basic
6. What is the most common means of drug elimination through excretion?
a. urine
b. feces
c. saliva
d. breath
Answer: a – urine
Objective: The ways drugs enter and exit the body
Page number: 13
Level: Basic
7. The rate of elimination of a particular drug can be determined by an index called:
a. the elimination quarter – life
b. the elimination rate - life
c. the elimination declination life
d. the elimination half – life
Answer: d - the elimination half – life
Objective: The ways drugs enter and exit the body



Level: Intermediate

- 10. The capacity of a drug dose to have a gradually diminished effect on the user as it is taken repeatedly is known as:
  - a. drug interaction
  - b. drug dependence
  - c. drug tolerance
  - d. the placebo effect

Answer: c - drug tolerance

Objective: Factors determining the physiological impact of drugs

Page number: 15

Level: Basic

- 11. Developing a tolerance for a drug's effect resulting in tolerance from the effects of another drug never taken is known as:
  - a. cross-reference
  - b. cross-tolerance
  - c. cross-dependence
  - d. cross-induction

Answer: b - cross tolerance

Objective: The distinction between physical and psychological dependence

Page number: 18

Level: Basic

12. A former drug – dependent individual is advised to avoid surroundings associated with his / her drug – taking behavior because it may provoke psychological effects opposite to the drug effect through their association with prior drug taking behavior. This type of tolerance is called:
a. psychological tolerance
b. behavioral tolerance
c. antagonistic tolerance
d. drug – dependence tolerance
Answer: b. behavioral tolerance
Objective: The distinction between physical and psychological dependence
Page number: 16
Level: Difficult
13. What kind of procedure is conducted when the individual receiving the drug and the person
administering the drug are unaware of whether a drug or a placebo is being given?
a. blind experiment
b. double blind experiment
c. administrative experiment
d. panacea experiment
Answer: b - double blind experiment
Objective: The psychiatric definitions of substance abuse and substance dependence
Page number: 20
Level: Basic
14. After the metabolic ( <i>chemical breakdown</i> ) and urinary excretion called biotransformation through enzymes in the liver, what are the end-products of this process called?
a. additives
b. subtractives

c. synergistic carrieres d. metabolites Answer: d - metabolites Objective: Factors determining the physiological impact of drugs Page number: 13 Level: Difficult 15. The distinction between drugs and nondrugs is defined by what intention? a. the intent of the drug use is to induce a bodily or psychological change. b. the intent of the drug use is to cure some ailment. c. the intent of the drug use is accidental d. the intent of the drug use is to Answer: a - the intent of the drug use is to induce a bodily or psychological change. Objective: Basic terminology concerning drugs and drug taking behavior Page number: 5 Level: Intermediate 16. Garrett has taken one substance that has a drug effect of 5, and a second drug with a drug effect of 4. If the combined effect is equivalent to 11, what is the combined drug effect called? a. additive b. hyperadditive c. potentiation d. synergism Answer: b - hyperadditive Objective: Factors determining the physiological impact of drugs

Page number: 14

Leve	el: Difficult
17.	Most of the absorption process is accomplished within how many minutes after ingest
	a. between one and ten minutes
	b. between two and minutes and three minutes
	c. between thirty and forty – five minutes
	d. between five and thirty minutes after ingestion
Ans	wer: d - between five and thirty minutes after ingestion
Obj	ective: Factors determining the physiological impact of drugs
Pag	e number: 9
Leve	el: Basic
18.	An interval of time during which the blood levels of a drug are not yet sufficient for a
	effect to be observed is called:
	a. biotransformation
	b. latency period
	c. half – life
	d. delayed effectiveness.
Ans	wer: b - latency period
Obj	ective: Factors determining the physiological impact of drugs
Pag	e number: 13
ا مرا	el: Intermediate

19. George has taken a barbiturate for weeks. Unfortunately, he has developed a tolerance to this drug, and also developed a tolerance to another barbiturate that he has never taken.

What is this type of reaction called?

- a. synergistic tolerance
- b. negated tolerance
- c. cross tolerance
- d. double tolerance

Answer: c - cross tolerance

Objective: Factors determining the physiological impact of drugs

Page number: 18

Level: Difficult

- 20. What is the correct list of routes of administration for drugs?
  - a. oral, injection, inhalation, biotransformation
  - b. oral, injection, inhalation, absorption
  - c. oral, injection, amalgamation, inhalation
  - d. oral, injection, inhalation, immersion

Answer: b - oral, injection, inhalation, absorption

Objective: Factors determining the physiological impact of drugs

Page number: 12

Level: Difficult

## **Chapter 1 True or False**

Select the appropriate answer, based on whether the statement is true or false.

1. The property of a synergistic drug interaction in which one drug combined with another drug produces an enhanced effect, when one of the drugs alone would have had no effect is called potentiation. a. True b. False Answer: True Objective: Factors determining the physiological impact of drugs Page number: 14 Level: Difficult 2. Regardless of which route of administration is used, the goal is for the drug to be absorbed into the bloodstream. a. True b. False Answer: True Objective: Factors determining the physiological impact of drugs. Page number: 9 Level: Basic

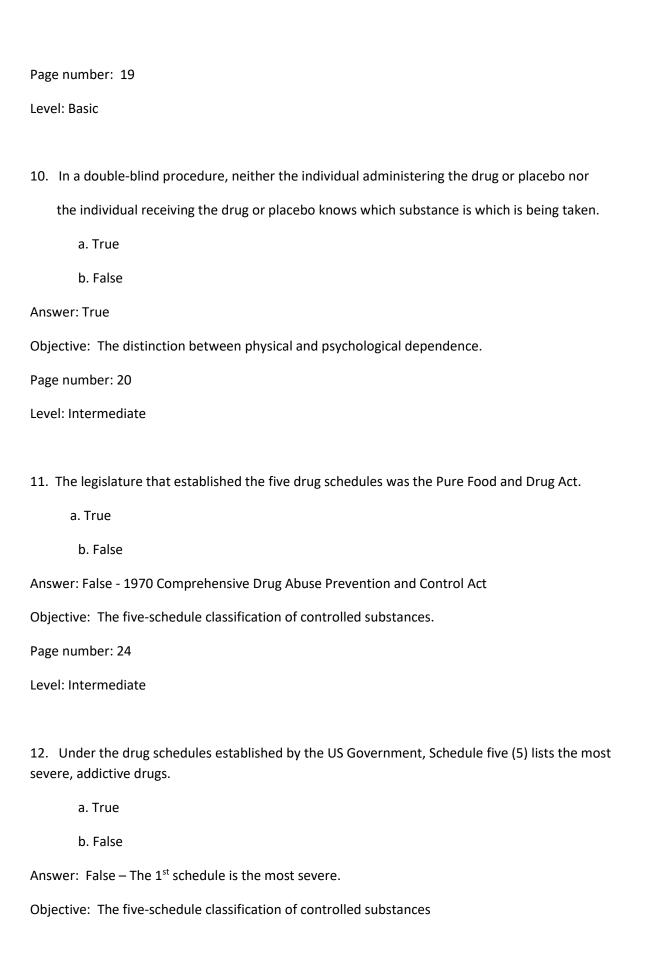
3. Intravenous injection is the fastest type of injection to deliver a drug into the blood.

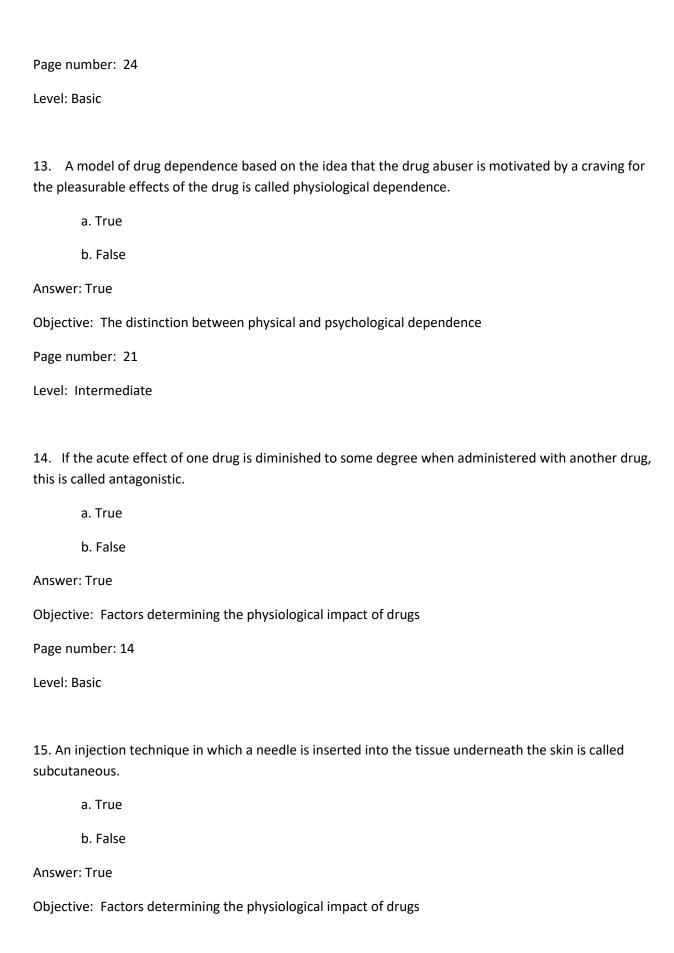
a. True

b. False

Answer: True
Objective: Factors determining the physiological impact of drugs.
Page number: 10
Level: Basic
4. Intramuscular injections are often referred to as skin-popping.
a. True
b. False
Answer: False
Objective: Factors determining the physiological impact of drugs.
Page number: 10
Level: Basic
5. Garrett takes a drug with an effect of 7, and another drug with an effect of 3. If the combined drug effect is 10, then the term for this combination is hyperadditive drug effect.
a. True
b. False
Answer: False - additive
Objective: Factors determining the physiological impact of drugs
Page number: 14
Level: Difficult
6. The elimination half-life of a drug will be faster if the drug is fat-soluble than if it is not.
a. True
b. False
Answer: False

Objective: Factors determining the physiological impact of drugs
Page number: 13
Level: Intermediate
7. Two examples of hyperadditive combinations are synergism and potentiation.
a. True
b. False
Answer: True
Objective: Factors determining the physiological impact of drugs.
Page number: 14
Level: Intermediate
8. Potentiation involves the using two drugs; one (when taken alone) has no effect at all.
a. True
b. False
Answer: True
Objective: Factors determining the physiological impact of drugs
Page number: 14
Level: Basic
9. Placebo is derived from the Latin, "I refuse to comply."
a. True
b. False
Answer: False – means "I will please"
Objective: The psychiatric definitions of substance abuse and substance dependence.





Page number: 10
Level: Basic
16. If Rachel consumes drugs from Schedule 1, these are the drugs that have no medicinal purposes a all.
a. True
b. False
Answer: True
Objective: The origins and history of drugs and drug-taking behavior
Page number: 24
Level: Basic
Chapter 1 Fill in the Blank
Fill in the appropriate answer.
1. Skin popping is a slang term forinjection.
Answer: Intramuscular
Objective: The ways drugs enter and exit the body
Page number: 10
Level: Basic
2. The length of the latency period is related to thetime of the drug.
Answer: absorption
Objective: Factors determining the physiological impact of drugs
Page number: 14
Level: Basic

3 Two	examples of hyper-additive combinations areand potentiation.
	Answer: synergism
	Objective: Factors determining the physiological impact of drugs
	Page number: 14
	Level: Intermediate
-	henomenon where chronic use of one drug induces a diminished effect to a second drug that has en used before is called tolerance.
	Answer: cross
	Objective: Factors determining the physiological impact of drugs
	Page number: 15
	Level: Intermediate
	injection technique called, often called "skin popping" is where a needle is inserted e tissue just underneath the skin.
	Answer: subcutaneous
	Objective: The ways drugs enter and exit the body
	Page number: 10
	Level: Intermediate
	e sequence of metabolic ( <i>chemical breakdown</i> ) events leading to urinary excretion begins with a scalled chiefly through the action of specific enzymes in the liver.
Answei	r: biotransformation
	Objective: The ways drugs enter and exit the body
	Page number: 13
	Level: Intermediate

7. The	e activity of enzymes required for biotransformation may be	or
	by the presence of other drugs in the body.	
	Answer: increased or decreased	
	Objective: Factors determining the physiological impact of drugs	
	Page number: 13	
	Level: Difficult	
	e rate a particular drug exits the body called half-life, is the ti bloodstream to decline to 50 percent of its original equilibrium level.	me it takes for the drug
	Answer: elimination	
	Objective: The ways drugs enter and exit the body	
	Page number: 13	
	Level: Difficult	
behavio	ormer drug – addict is advised to avoid surroundings associated with his / or because it may provoke psychological effects opposite to the drug effection with prior drug taking behavior. This is called tolerance.	ct through their
	Answer: behavioral tolerance	
	Objective: Factors determining the physiological impact of drugs	
	Page number: 16	
	Level: Intermediate	
10. W	hen administering a drug in a time-release form, a large dose is given initi	ally to
afterwa	the drug effect to be felt; then smaller doses are programmed to be released. The intention is to keep the concentration of the drug in the blood we have for the drug to be effective while low enough to avoid any toxic effects.	•

Objective: Factors determining the physiological impact of drugs
Page number: 14
Level: Difficult
11. When drugs are administered repeatedly, there is a risk that the 2 <sup>nd</sup> dose will boost theof the drug in the blood too high before the effect of the first dose has a chance to decline.
Answer: concentration
Objective: The ways drugs enter and exit the body
Page number: 14
Level: Intermediate
12. The concept of refers to the capacity of a drug dose to have a gradually diminished effect on the user as the drug is taken repeatedly.
Answer: tolerance
Objective: The psychiatric definitions of substance abuse and substance
Page number: 15
Level: Basic
13. A procedure is drug research in which neither the individual administering nor the individual receiving a chemical substance knows whether the substance is the drug being evaluated or an active placebo.
Answer: double – blind
Objective: The psychiatric definitions of substance abuse and substance dependence
Page number: 20
Level: Difficult

Answer: "therapeutic window,"

14. The most important implication of the model of physical dependence, as distinct from psychological dependence, is that individuals involved in drug abuse continue the drug-taking behavior to avoid the feared consequences of
Answer: withdrawal
Objective: Basic terminology concerning drugs and drug taking behavior
Page number: 21
Level: Difficult
15. According to the Controlled Substances Schedules under the Controlled Substance Act,
schedule has the highest potential for abuse, and no accepted medical use.
Answer: one (1)
Objective: The five-schedule classification of controlled substances
Page number: 24
Level: Basic
16. Mark, a recovering alcoholic has also developed a tolerance to some barbiturates. Now, Mark is having surgery, and his doctor is concerned about the body needing additional anesthesia when he undergoes surgery soon. This type of reaction is calledtolerance.
Answer: cross
Objective: Basic terminology concerning drugs and drug taking behavior
Page number: 18
Level: Intermediate
17. Margaret, a heroin user, knows that heroine is detrimental, yet continues to use the drug to avoid severe withdrawal symptoms. She realizes she has developed aon heroin.
Answer: psychological dependence
Objective: The distinction between physical and psychological dependence

Page number: 21

Level: Difficult

18. Mark is taking a prescription drug with a drug effect of 4 and another drug with a drug effect of 7. The combination drug effect of the two drugs is equal to 9. This type of reaction is called a (an) drug effect.

Answer: antagonistic

Objective: Factors determining the physiological impact of drugs

Page number: 14

Level: Difficult

### **Chapter 1 Essay**

Explain in detail the concepts listed below.

1. Explain the difference between instrumental and recreational drug use.

<u>Answer</u>: Based upon on the intent of the individual, drug use can be categorized as either instrumental or recreational.

Instrumental use is when a person is taking a drug with a specific socially approved goal in mind. The user may want to stay awake longer, fall asleep more quickly, or recover from an illness. Drugtaking behavior occurs as a means towards an end that has been defined by our society as legitimate. The legal status of the drug itself or whether we agree with the reason for the drug-taking behavior is not the issue here. The instrumental use of drugs can involve prescription and nonprescription (overthe-counter) drugs that are licitly obtained and taken for a particular medical purpose. The instrumental use of drugs also can involve drugs that are illicitly obtained, such as an amphetamine that has been procured through illegal means to help a person stay awake and alert after hours without sleep.

Recreational use means that a person is taking the drug not as a means to a socially approved goal but for the purposes of experiencing the effect of the drug itself. The motivation is to experience a pleasurable feeling or achieve a positive state of mind. Whatever happens as a consequence of recreational drug-taking behavior is viewed not as a means to an end but as an end unto itself. Drinking alcohol and smoking tobacco are two examples of licit recreational drug-taking behavior. Involvement with street drugs, in that the goal is to alter one's mood or state of consciousness, falls into the category of illicit recreational drug-taking behavior

Objective: Basic terminology concerning drugs and drug taking behavior

Page number: 5 - 7

Level: Basic

2. Explain the difference between licit and illicit drugs. Be sure to include instrumental use and recreational use.

<u>Answer:</u> Illicit drugs are drugs whose manufacture, sale, or possession is illegal. Licit drugs are drugs whose manufacture, sale, or possession is legal.

Objective: Basic terminology concerning drugs and drug taking behavior

Page number: 4

Level: Basic

3. Describe three of the several ways drugs can be administered into the body. Discuss the advantages and disadvantages of each of them with respect to toxicity and side effects.

Answer: There are four basic ways to administer drugs into the body: oral administration, injection, inhalation, and absorption through the skin or membranes. Advantages of Oral: Basic consumption. Disadvantages are that the gastrointestinal track sometimes prevents certain drugs from entering that we want absorbed. Advantages of injection: immediate, extreme dosage, and extreme amt of control. Disadvantages are that this type of administration is irreversible. Repeated injections can also cause veins to collapse. Advantages of inhalation: Easiest administration through gas or vapor, concentration of the drug can be precisely controlled. Disadvantages: smoked drugs hazards of breathing particles in the air that contain not only the active drug but also tars and other substances produced by the burning process and throat to the lungs can be become severely irritated over time. Advantages of absorption are: Basic administration such as absorbed through nose membranes, nasal sprays, chewed, or put under tongue to dissolve, suppositories. Disadvantages are irritation of skin or membranes

Objective: The ways drugs enter and exit the body

Page number: pp. 9-12

Level: Difficult

4. Summarize the Controlled Substances Schedules. Make sure to include their potential for abuse, the potential for medicinal use, and the level of physical and psychological dependence. Also include an example of a drug from each level.

Answer: There are five schedules under the Schedules Act. Schedule one has a high potential for abuse, no medical use, and examples would be heroin, LSD, marijuana and PCP. Schedule two has high potential for abuse, and some medical use. Examples would be codeine, morphine, cocaine, and amphetamines. Schedule Three has some potential for abuse, accepted medical use, and example would be barbiturates and narcotic solutions. Schedule four has low potential for abuse, and some examples would be sedative hypnotics and anti-anxiety drugs. Schedule five, the lowest schedule, has minimal potential for abuse, widespread medical use, and prescription cough medicines.

Objective: The five-schedule classification of controlled substances

Page number: 24

Level: Intermediate

5. Explain at least three criteria that need to be present for substance dependence according to the DSM-IV.

Answer: The first criteria is tolerance. The person has to take increasingly large doses of the drug to get the desired effect. Or else the person experiences a diminished effect from the same amount of the drug. The second type of criteria is Withdrawal. When the drug is stopped, there are psychological or physiological withdrawal symptoms or else the substance is taken to relieve or avoid these symptoms. The third criteria selected is persistent desire or efforts to control drug use. The person tries to quit and repeatedly relapses into further drug use.

Objective: The distinction between physical and psychological dependence

Page number: 23

Level: Difficult

### **Chapter 1 Matching**

Match the correct terminology in the left column to the definition in the right column.

1. elimination half- life	a. Referring to the motivation of a drug user who takes a drug only to get "high" or achieve some pleasurable effect.
2. drug tolerance	b. The combination of two drugs that results in an acute effect that is equivalent to

	the sum of the effects of either drug administered separately.
3. drug misuse	c. The capacity of a drug dose to have a gradually diminished effect on
	the user as it is taken repeatedly.
4. additive	d. Instances in which a prescription or nonprescription drug is used in an inappropriate way.
5. drug dependence	e. A condition in which an individual feels a compulsive need to continue taking a drug.
6. instrumental use	f. Referring to the motivation of a drug user who takes a drug for a specific purpose other than getting "high."
7. recreational use	g. The length of time it takes for a drug to be reduced to 50 percent of its equilibrium level in the bloodstream, which is a product of biotransformation.
8. cross-tolerance	h. A phenomenon in which the tolerance that results from the chronic use of one drug induces a tolerance effect with regard to a second drug that has not been used before.

1. \*[g]

Objective: The ways drugs enter and exit the body

Page: pg 13

2. \*[c]

Objective: The distinction between physical and psychological dependence

Page: 15

3. \*[d]

Objective: Basic terminology concerning drugs and drug taking behavior

Page: 7

4. \*[b]

Objective: Basic terminology concerning drugs and drug taking behavior

Page: 13

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5. *[e]
Objective: Basic terminology concerning drugs and drug taking behavior
Page: 4
6. *[f]
Objective: Basic terminology concerning drugs and drug taking behavior
Page 6
7. * [a]
Objective: Basic terminology concerning drugs and drug taking behavior
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8. * [h]
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