For each question below, choose the best answer from the choices given.

1. Talking the individual down is a technique used to help recover from the use of
   (A) hallucinogens
   (B) stimulants
   (C) opioids
   (D) barbiturates

2. Which of the following is used as a cough suppressant?
   (A) Amphetamines
   (B) Codeine
   (C) Barbiturates
   (D) Morphine

3. Sleeping pills are also known as
   (A) opioids
   (B) CNS depressants
   (C) selective serotonin reuptake inhibitors (SSRIs)
   (D) dopaminergic agents

4. China white is the street name for a derivative of
   (A) methadone
   (B) heroin
   (C) cocaine
   (D) fentanyl

5. A highly potent form of marijuana is
   (A) hashish.
   (B) opium.
   (C) cannabis.
   (D) hemp.
6. Which of the following has the highest potential for dependence?
   (A) Morphine  
   (B) Marijuana  
   (C) Alcohol  
   (D) Amphetamines

7. Based on the stages of change model, during the precontemplation stage the individual
   (A) denies there is a problem  
   (B) accepts responsibility for the problem  
   (C) sets goals to resolve the problem  
   (D) exhibits anger regarding the problem

8. Which of the following is a group of hormones abused by athletes to increase muscle mass?
   (A) Amphetamines  
   (B) Androgens  
   (C) Creatines  
   (D) Opiates

9. Each of the following is classified as a hallucinogenic drug EXCEPT:
   (A) LSD  
   (B) Psilocybin  
   (C) Marijuana  
   (D) Mescaline

10. Which of the following is a property of some CNS depressants that has contributed to the development of psychological dependence?
    (A) High levels of lipid-solubility  
    (B) Low levels of lipid-solubility  
    (C) Short onset of action  
    (D) Long duration of action
11. An individual who is withdrawing from the use of stimulants commonly experiences

(A) irritability
(B) euphoria
(C) shallow respirations
(D) hot skin

12. Which of the following is a schedule II substance based on the Controlled Substances Act?

(A) Morphine
(B) Alprazolam
(C) Heroin
(D) Secobarbital

13. Each of the following is classified as a clinical antidepressant drug EXCEPT:

(A) Escitalopram
(B) Fluoxetine
(C) Duloxetine
(D) Haldol

14. Codeine is classified as which of the following types of drugs?

(A) Opioid
(B) Hallucinogen
(C) Cannabinoid
(D) Stimulant

15. Which of the following is classified as an antipsychotic drug?

(A) Bupropion
(B) Thorazine
(C) Fluoxetine
(D) Sertraline
16. Flumazenil is used as an antidote to treat overdoses of which of the following?

(A) Benzodiazepines
(B) Opioids
(C) Barbiturates
(D) Amphetamines

17. A sudden sniffing death from inhalant abuse would most likely be associated with inhalation of which of the following?

(A) Ether
(B) Butane
(C) Nitrous oxide
(D) Gasoline

18. Use of which of the following is LEAST likely to cause dependency?

(A) Methamphetamine
(B) Cocaine
(C) Heroin
(D) Inhalants

19. Tobacco was first established as a commercial crop in America by which of the following?

(A) George Washington
(B) John Rolfe
(C) Christopher Columbus
(D) King George III

20. Which of the following topics of a program is an example of secondary prevention?

(A) Legalization of Marijuana
(B) Healthy Food Choices
(C) Living with Cancer
(D) Stress Management
21. Drinking refers to which of the following means of administering tobacco?

(A) Injecting 
(B) Smoking 
(C) Chewing 
(D) Inhaling through the nose

22. Use of which of the following substances has not been associated with a withdrawal syndrome after chronic use?

(A) Cannabis 
(B) CNS depressants 
(C) Stimulants 
(D) Hallucinogens

23. Which of the following is an example of synesthesia?

(A) Seeing music 
(B) Hearing voices 
(C) Feeling the skin crawl 
(D) Experiencing the taste of metal

24. Fetal alcohol syndrome has been associated with

(A) schizophrenia 
(B) diabetes mellitus 
(C) thyroid disease 
(D) growth retardation

25. Which of the following is likely to experience the most severe symptoms of nicotine withdrawal?

(A) Heavy smoker 
(B) Moderate smoker 
(C) Light smoker 
(D) Secondhand smoker
26. Which of the following is a non-nicotine treatment for smoking addiction?

(A) NicoDerm  
(B) Nicorette  
(C) Varenicline  
(D) Thorazine

27. CYP450 enzymes are primarily located in the

(A) stomach  
(B) liver  
(C) brain  
(D) lungs

28. Approximately what percentage of U.S. adults are regular smokers?

(A) 20  
(B) 35  
(C) 40  
(D) 50

29. Hallucinogens were initially used as an adjunct to

(A) chemotherapy  
(B) psychotherapy  
(C) neurosurgery  
(D) cardiac surgery

30. Which of the following medications is approved by the FDA for the treatment of methamphetamine addiction?

(A) Bupropion  
(B) No currently approved medications  
(C) Varenicline  
(D) Phenytoin
31. The media contributed to the initial increased use of which of the following inhalants?

(A) Nitrous oxide
(B) Glue
(C) Hair spray
(D) Ether

32. What is one disadvantage of THC taken orally for medical purposes?

(A) Delayed onset of therapeutic effects
(B) Inability to reduce nausea symptoms
(C) Ineffectiveness in treating glaucoma
(D) Inability to convert to dronabinol

33. Under the Controlled Substances Act, marijuana is classified as which of the following?

(A) Schedule V
(B) Schedule III
(C) Schedule II
(D) Schedule I

34. Approximately how many people in the United States are chronic marijuana users?

(A) 1 to 2 million
(B) 3 to 4 million
(C) 4 to 5 million
(D) 7 to 10 million

35. Which of the following statements is true regarding LSD dependency?

(A) LSD addicts have stronger cravings for the drug than do abusers addicted to heroin or cocaine.
(B) Withdrawal from LSD produces intense symptoms such as those caused by opioid withdrawal.
(C) LSD users develop psychological dependence rather than physical dependence on the drug.
(D) Flashbacks are experienced only by those users who actively take LSD on a regular basis.
36. Which of the following statements is correct regarding protein-binding?

(A) The lower the protein binding, the more potent the drug.
(B) Protein-bound drugs are excreted from the body unchanged.
(C) The more a drug binds to proteins in the body, the slower the onset of action.
(D) Protein binding is directly related to lipid solubility.

37. The term atypical antipsychotics refers to which of the following?

(A) Antipsychotic drugs commonly prescribed to treat depression
(B) Antipsychotic drugs developed before conventional antipsychotics
(C) Antipsychotic drugs that purposefully cause psychotic hallucinations
(D) Antipsychotic drugs developed after conventional antipsychotics

38. Which of the following models of the cause of substance use is associated with Alcoholics Anonymous?

(A) Moral
(B) American Disease
(C) Biological
(D) Social Learning

39. Amyl nitrite may cause which of the following physiologic effects?

(A) Decreased respirations
(B) Increased heart rate
(C) Dilation of arteries in the brain
(D) Constriction of pupils

40. Which of the following side effects is common with atypical antipsychotics?

(A) Reduced triglycerides
(B) Weight gain
(C) Narcolepsy
(D) Sleep apnea
41. Which of the following is one of the earliest indications of opioid abstinence syndrome?

(A) Nausea  
(B) Insomnia  
(C) Tearing eyes  
(D) Anxiety

42. Tricyclic antidepressants were discovered as scientists were in the process of attempting to develop an improved version of which of the following?

(A) Antihypertensives  
(B) Antipsychotics  
(C) Antitussives  
(D) Antihistamines

43. Which of the following causes an additive depressant effect when taken with benzodiazepines?

(A) methamphetamine  
(B) alcohol  
(C) phencyclidine  
(D) cocaine

44. In addition to treating depression, SSRI antidepressants are also commonly prescribed to treat which of the following?

(A) Anxiety  
(B) Hypotension  
(C) Hyperthyroidism  
(D) Tuberculosis

45. Which of the following is often associated with the onset of flashbacks for an individual who has previously used LSD?

(A) REM sleep  
(B) Smoking tobacco  
(C) Stress  
(D) Caffeine
46. Methylated amphetamines have a duration of action averaging
   (A) 15 to 30 minutes
   (B) 60 to 90 minutes
   (C) 2 to 4 hours
   (D) 6 to 8 hours

47. Smoking cigarettes may have which of the following physiologic effects?
   (A) Dilation of large blood vessels
   (B) Increased sweating
   (C) Inhibition of hunger
   (D) Decreased blood sugar

48. The effects of amphetamines may be produced due to the chemical similarity to
   (A) norepinephrine
   (B) glutamate
   (C) heroin
   (D) opium

49. Most inpatient treatment programs for substance abuse are based on
   (A) biology
   (B) neurology
   (C) psychology
   (D) sociology

50. Bupropion is used in the treatment of each of the following EXCEPT:
   (A) Seasonal affective disorder
   (B) Diabetes
   (C) Depression
   (D) Nicotine addiction
51. Alcohol-sensitizing drugs cause which of the following effects if alcohol is consumed while taking the drug?

(A) Hypotension  
(B) Euphoria  
(C) Vomiting  
(D) Sedation

52. An expansive reaction may increase

(A) panic  
(B) impulsivity  
(C) uncoordinated movements  
(D) creativity

53. Which of the following is classified as an alkaloid?

(A) Alcohol  
(B) Marijuana  
(C) Tobacco  
(D) Caffeine

54. Alcohol is believed to have a depressant effect due to which of the following physiologic actions?

(A) Changing the shape of some receptor sites  
(B) Inhibiting the action of acetylcholine  
(C) Enhancing the release of some neurotransmitters  
(D) Altering the structure of the cell membranes

55. Which of the following slows the absorption of alcohol?

(A) Milk  
(B) Carbonation  
(C) Activity  
(D) Aspirin
56. Benzodiazepines are commonly used to treat alcohol withdrawal due to which of the following?

(A) Absorption  
(B) Potency  
(C) Bioavailability  
(D) Cross dependence

57. Chronic toxicity associated with amphetamines may cause

(A) rapid respirations  
(B) tremors  
(C) restlessness  
(D) compulsive behavior

58. Which of the following substances is most likely to be misused to obtain information from individuals suspected of espionage?

(A) Ritalin  
(B) Methadone  
(C) MDMA  
(D) THC

59. Which of the following is a major benefit of a therapeutic community to treat substance abuse?

(A) Detoxification during treatment occurs rapidly.  
(B) Low rates of attrition occur during treatment.  
(C) Work productivity increases while in treatment.  
(D) Criminal behavior ceases while in treatment.

60. Which of the following is the basis of using a breath sample to estimate the blood alcohol concentration (BAC)?

(A) Elimination  
(B) Absorption  
(C) Metabolism  
(D) Oxidation
61. Signs of heroin withdrawal may begin to appear as early as how many hours after the last injection of heroin?

(A) 2
(B) 4
(C) 10
(D) 12

62. Which of the following provides a method to know the magnitude of impact that a substance will have on an individual based on a specific amount of the substance?

(A) Solubility scales
(B) Assays of plasma protein levels
(C) Rates of excretion
(D) Dose-response (dose-effect) curve

63. Which of the following is a source of alcohol that is commonly consumed if an individual who is dependent on alcohol is unable to obtain an alcoholic beverage?

(A) Shaving lotion
(B) Toothpaste
(C) Deodorant
(D) Liquid soap

64. Which of the following substances has been associated with anterograde amnesia?

(A) Ritalin
(B) Adderall
(C) Cylert
(D) Xanax

65. Which of the following helped to create the high level sales of crack?

(A) It is less dangerous to produce than other forms of freebase.
(B) It is more affordable since it is less potent than other forms of freebase.
(C) The dependence develops over a long period of time.
(D) There are few legal penalties associated with possession.
66. Offering clean needles and syringes to individuals who use injectable substances is based on the principles of

(A) social justice
(B) enabling
(C) harm reduction
(D) tertiary prevention

67. The long-term effects of the use of MDMA are difficult to determine due to which of the following factors?

(A) High mortality rates associated with MDMA use
(B) MDMA is a schedule I substance based on the Controlled Substances Act
(C) Varied levels of serotonin in the human brain tissue
(D) Decreased availability of pure MDMA

68. When a substance has sympathomimetic effects, the substance causes

(A) nasal congestion
(B) increased REM sleep
(C) sweating
(D) hunger

69. Alcoholic beverages have been given in small amounts to geriatric-aged individuals to

(A) suppress gastric acid
(B) stimulate the appetite
(C) dilate superficial vessels
(D) minimize memory loss

70. Which of the following has both a high level of physical dependence and a high level of psychological dependence?

(A) Amphetamines
(B) Benzodiazepines
(C) Opium
(D) Codeine
71. Over-the-counter sedatives used as sleep-aids commonly contain

(A) antihistamines
(B) alcohol
(C) ephedrine
(D) salicylates

72. One protective factor associated with the use of drugs by adolescents is

(A) participating in multiple extracurricular activities
(B) being a member of a social club
(C) having younger siblings
(D) living in a rural area

73. Which of the following substances is detectable in the urine for several weeks after single use?

(A) PCP
(B) THC
(C) Cocaine
(D) Alcohol

74. The onset of action for stimulants via the oral route averages

(A) 10 to 15 minutes
(B) 20 to 30 minutes
(C) 45 to 60 minutes
(D) 90 to 100 minutes

75. Peak blood concentrations of PCP are seen how soon after smoking PCP?

(A) 2 to 3 minutes
(B) 5 to 15 minutes
(C) 20 to 30 minutes
(D) 45 to 90 minutes
76. Which of the following effects of ingesting moderate levels of alcohol is a contributing factor to motor vehicle collisions after drinking alcoholic beverages?

(A) Increased activity of the central nervous system (CNS)
(B) Increased sensitivity to bright lights
(C) Decreased reaction time
(D) Decreased visual acuity

77. Which of the following statements is true regarding serotonin?

(A) Insufficient serotonin levels cause Parkinson-like movements.
(B) Hallucinogens block the serotonin pathway.
(C) These receptors can be both excitatory and inhibitory.
(D) This is the major neurotransmitter of the autonomic nervous system.

78. Toxicity associated with which of the following substances causes slow, shallow respirations?

(A) Fentanyl
(B) Ritalin
(C) PCP
(D) THC

79. An individual who stops taking SSRI antidepressants abruptly is most likely to experience each of the following EXCEPT:

(A) Seizure
(B) Headache
(C) Anxiety
(D) Irritability

80. Historically, adolescents from which of the following ethnic groups have had the lowest rate of illicit drug use?

(A) African American
(B) Asian
(C) American Indian
(D) Hispanic
81. An individual who has a pattern of chronic, heavy ingestion of alcoholic beverages develops psychosis due to

(A) nutritional deficiencies
(B) recurrent head injuries
(C) chronic dehydration
(D) compromised cerebral blood flow

82. Abuse of which of the following substances has been associated with a high rate of infection with the human immunodeficiency virus (HIV)?

(A) LSD
(B) Opium
(C) Methqualone
(D) Heroin

83. A moderate dose of which of the following substances causes increased talkativeness?

(A) Seconal
(B) Valium
(C) Alcohol
(D) Amphetamines

84. Which of the following substances may have a use in the treatment of obsessive-compulsive disorder?

(A) Adipex
(B) Psilocybin
(C) Morphine
(D) Caffeine

85. Each of the following is a xanthine EXCEPT:

(A) Caffeine
(B) Adenosine
(C) Theobromine
(D) Theophylline
86. Stimulation of the autonomic nervous system can cause

(A) difficulty learning
(B) muscle uncoordination
(C) emotional liability
(D) mouth dryness

87. When a known dose of a substance produces a shift to the right on the dose-response (dose-effect) curve, this is an indication of

(A) antagonism
(B) synergism
(C) enzyme induction
(D) enzyme inhibition

88. In the United States, most commercially produced beers have an alcohol content of approximately

(A) 4%
(B) 6%
(C) 8%
(D) 10%

89. The effect of injecting opioid substances may be enhanced if the substance user anticipates the injection. This anticipatory effect is believed to be related to the release of which of the following substances in the brain?

(A) Endorphins
(B) Acetylcholine
(C) Serotonin
(D) Dopamine

90. Stimulants are prescribed medically to

(A) enhance learning
(B) minimize weight loss
(C) treat seizures
(D) suppress coughs
91. Ingestion of derivatives of the salvia plant may produce which of the following effects?

(A) Excitation  
(B) Analgesia  
(C) Hallucinations  
(D) Sedation

92. Which of the following drug properties causes a delay in the drug reaching the site of action?

(A) High affinity for fat  
(B) Low level of protein binding  
(C) High water solubility  
(D) Low level of metabolites

93. Which of the following schedules of drugs based on the Controlled Substances Act requires a written prescription?

(A) I  
(B) II  
(C) IV  
(D) V

94. Indicators of heavy drinking and alcohol-related arrests in the United States have been significantly correlated with

(A) enrollment in after school programs  
(B) religiosity  
(C) alcohol sales statistics  
(D) stress index

95. Which of the following effects does prenatal use of cocaine have on the infant?

(A) Nasal swelling  
(B) Milk intolerance  
(C) Low birth weight  
(D) Large head size
96. Which of the following substances has a low affinity for plasma proteins?

(A) Alcohol
(B) Marijuana
(C) Barbiturates
(D) Methadone

97. Alcohol is metabolized in the liver and forms

(A) norepinephrine
(B) dopamine
(C) acetylcholine
(D) acetaldehyde

98. Which of the following is believed to be the most common psychoactive drug used on a daily basis?

(A) Aspirin
(B) Nicotine
(C) Alcohol
(D) Caffeine

99. When compared to narcotic withdrawal syndrome, withdrawal from sedative-hypnotic agents typically

(A) is less unpleasant
(B) lasts for a longer time
(C) causes increased sleep
(D) requires hospitalization

100. Which of the following statements is true regarding the blood alcohol concentration (BAC)?

(A) The longer the elevation of the BAC, the slower alcohol is metabolized.
(B) The BAC shifts to the left if alcohol is ingested with food.
(C) The quicker the rise in BAC, the greater the behavioral effect.
(D) The lower the body weight, the slower the BAC rises.
1. The correct answer is A. Since most people experiencing hallucinogen intoxication remain in touch with reality, "talking down" or offering reassurance and support that emphasizes that the anxiety or paranoia will pass as the drug wears off, is often helpful.

2. The correct answer is B. Codeine is used for treating moderate pain and as a cough suppressant. Morphine is another opioid used to relieve pain without inducing sleep. Amphetamines and barbiturates are not used for cough suppression, so choices A and C are incorrect.

3. The correct answer is B. Sleeping pills are also known as CNS depressants.

4. The correct answer is D. China white is the street name for a derivative of fentanyl.

5. The correct answer is A. Hashish is a potent form of marijuana that contains high levels of THC and may cause hallucinations. Opium is not a form of marijuana, so choice B is incorrect. The wood stem of the cannabis plant is used to make hemp cloth and rope, so choices C and D are incorrect.

6. The correct answer is A. Morphine and opium have a high potential for dependence.

7. The correct answer is A. During the precontemplation stage of the stages of change model, the individual typically denies that there is a problem associated with substance use.

8. The correct answer is B. Androgens are hormones abused by athletes that are found in anabolic steroids. Athletes have used both amphetamines and creatine, but neither one is a hormone. Opiates are not hormones, so choice D is incorrect.

9. The correct answer is C. Marijuana is classified as a cannabinoid. LSD, psilocybin, and mescaline are hallucinogenic drugs.

10. The correct answer is C. Psychological dependence of some CNS depressants is associated with the short onset of action.

11. The correct answer is A. Withdrawal from stimulants commonly causes irritability.

12. The correct answer is A. Morphine is a schedule II substance based on the Controlled Substances Act.

13. The correct answer is D. Haldol is an antipsychotic drug. Escitalopram (Lexapro) and fluoxetine (Prozac) are SSRI antidepressants; duloxetine (Cymbalta) is an SNRI antidepressant.

14. The correct answer is A. Codeine is classified as an opioid drug. Other opioids include opium, morphine, and heroin.

15. The correct answer is B. Thorazine is classified as an antipsychotic drug. Bupropion (Wellbutrin), fluoxetine (Prozac), and sertraline (Zoloft) are antidepressants.

16. The correct answer is A. Flumazenil is used as an antidote to treat overdoses of benzodiazepines. Opioid overdoses are treated with naloxone.
17. The correct answer is B. A sudden sniffling death from inhalant abuse would most likely be associated with inhalation of butane.

18. The correct answer is D. Inhalants are less likely to cause dependency than drugs such as heroin, cocaine, and methamphetamine. Individuals who abuse inhalants, however, can become addicted with long-term use.

19. The correct answer is B. Tobacco was first established as a commercial crop in America by a Virginia settler named John Rolfe. Rolfe began growing tobacco for export by the Jamestown colony in the 1600s. He is perhaps best known as the husband of Pocahontas.

20. The correct answer is D. Secondary prevention focuses on minimizing risks associated with an illness or disease process. Stress Management is a topic that is an example of secondary prevention.

21. The correct answer is B. Drinking refers to the administration of tobacco by smoking. The phrase "drinking" was used historically to mean smoking tobacco.

22. The correct answer is D. Hallucinogens have not been reported to cause withdrawal syndrome after chronic use.

23. The correct answer is A. Synesthesia is associated with hallucinogens and is the perception of a stimulus in a modality that is different than how the perception was received, such as seeing music.

24. The correct answer is D. Fetal alcohol syndrome may cause growth retardation, abnormal facial features, and/or CNS abnormalities.

25. The correct answer is A. A heavy smoker is likely to experience the most severe symptoms of nicotine withdrawal. In general, the intensity of the symptoms is proportional to the degree of the person's smoking habit.

26. The correct answer is C. Varenicline (Chantix) is a non-nicotine treatment for smoking addiction. NicoDerm is a nicotine patch; Nicorette is a nicotine gum. Thorazine is an antipsychotic medication.

27. The correct answer is B. CYP450 enzymes are primarily located in the liver.

28. The correct answer is A. Approximately 20 percent of U.S. adults are regular smokers. This percentage is similar (20 percent) for youth smokers.

29. The correct answer is B. Hallucinogens were initially used as an adjunct to psychotherapy.

30. The correct answer is B. Currently, there are no medications approved by the FDA for the treatment of methamphetamine addiction. Bupropion and varenicline are approved for the treatment of nicotine addiction.

31. The correct answer is B. The media attention to and description of glue sniffing lead to the initial increased use of this inhalant.
32. The correct answer is A. One disadvantage of THC taken orally for medical purposes is its delayed onset of therapeutic effects. Orally administered THC requires more time to take effect than does marijuana administered through other means, particularly smoking.

33. The correct answer is D. Under the Controlled Substances Act, marijuana is classified as a Schedule I substance. Schedule I drugs are those with "a high potential for abuse" that have "no currently accepted medical use" or are considered potentially unsafe even if used with medical supervision.

34. The correct answer is C. Approximately 4 to 5 million people in the United States are estimated to be chronic marijuana users. Statistics on overall drug dependence are inconsistent, but reports indicate that illicit drug dependency may affect over 20 million Americans.

35. The correct answer is C. LSD users develop psychological dependence rather than physical dependence on the drug. Cravings are not as strong as those felt by heroin or cocaine abusers, and physical withdrawal symptoms are not typically experienced. Flashbacks may occur for some time after LSD use has stopped.

36. The correct answer is C. When a drug is highly bound to proteins, the rate of distribution of the drug to the site of action is slowed. This results in a slower onset of action of the drug.

37. The correct answer is D. The term atypical antipsychotics refers to antipsychotic drugs developed after conventional antipsychotics. Atypical antipsychotics are also described as second-generation antipsychotics.

38. The correct answer is B. The American Disease model is the basis of Alcoholics Anonymous.

39. The correct answer is C. Amyl nitrite may cause dilation of arteries in the brain.

40. The correct answer is B. Weight gain is a common side effect associated with atypical antipsychotics. These medications tend to increase triglycerides and to increase the risk of type II diabetes.

41. The correct answer is D. Anxiety is one of the earliest indications of opioid abstinence syndrome.

42. The correct answer is B. Tricyclic antidepressants were discovered as scientists were in the process of attempting to develop an improved antipsychotic medication. Included among the tricyclic group are doxepin, imipramine, and amitriptyline.

43. The correct answer is B. Alcohol causes an additive depressant effect when taken with benzodiazepines.

44. The correct answer is A. In addition to treating depression, SSRI antidepressants are also commonly prescribed to treat anxiety. They have the effect of reducing anxiety in some patients.

45. The correct answer is C. Flashbacks are often brought on by stress, fatigue, or the use of marijuana.

46. The correct answer is D. Methylated amphetamines have a duration of action of about 6 to 8 hours.
47. The correct answer is C. Smoking cigarettes may cause decreased hunger.

48. The correct answer is A. Amphetamines have chemical similarities to catecholamines (dopamine and norepinephrine), and this may produce the effect of amphetamines.

49. The correct answer is C. Inpatient treatment programs for substance abuse are commonly based on psychology.

50. The correct answer is B. Bupropion is an antidepressant commonly used in the treatment of depression. It is also approved by the FDA to treat seasonal affective disorder (SAD) and nicotine addiction.

51. The correct answer is C. Vomiting is a common effect if alcohol is consumed while taking an alcohol-sensitizing drug.

52. The correct answer is D. An expansive reaction associated with hallucinogens may increase creativity.

53. The correct answer is D. Caffeine contains compounds called methylxanthines, and is classified as an alkaloid.

54. The correct answer is D. Alcohol is believed to have a depressant effect due to alteration of the cell membrane, thereby inhibiting neurotransmitter activity.

55. The correct answer is A. Milk is very effective in slowing the absorption of alcohol.

56. The correct answer is D. Benzodiazepines are commonly used to treat alcohol withdrawal due to cross dependence.

57. The correct answer is D. Chronic use of amphetamines may induce compulsive and repetitive behaviors.

58. The correct answer is C. MDMA is believed to enhance communication and decrease defensiveness, and thereby is most likely to be misused to obtain information from individuals suspected of espionage.

59. The correct answer is D. Therapeutic community is one effective treatment for substance use with a major benefit that criminal behavior ends while in treatment.

60. The correct answer is D. Oxidation is the basis of using a breath sample to estimate the blood alcohol concentration (BAC).

61. The correct answer is B. Withdrawal symptoms might begin as early as 4 hours after the previous injection of heroin.

62. The correct answer is D. The dose-response (dose-effect) curve is a method to identify the magnitude of impact that a substance will have on an individual based on a specific amount of the substance.

63. The correct answer is A. Shaving lotion is a source of alcohol that may be consumed by an individual who is dependent on alcohol and who is unable to obtain an alcoholic beverage.
64. The correct answer is D. Anterograde amnesia has been associated with Xanax.

65. The correct answer is A. Crack is less dangerous to produce than other forms of freebase.

66. The correct answer is C. Harm reduction emphasizes reducing the negative consequences of using a substance and is the basis for programs that distribute clean needles and syringes to individuals who use injectable substances.

67. The correct answer is D. Determining the long-term effects of the use of MDMA is difficult due to the high incidence of MDMA being mixed with other substances.

68. The correct answer is C. Sympathomimetic substances cause pupillary dilation, sweating, and increased heart rate.

69. The correct answer is B. Alcoholic beverages, in small amounts, are used in geriatric-aged individuals to stimulate the appetite.

70. The correct answer is C. Opium has both a high level of physical dependence and a high level of psychological dependence.

71. The correct answer is A. Over-the-counter sedatives used as sleep-aids commonly contain antihistamines, such as diphenhydramine.

72. The correct answer is A. Protective factors associated with use of drugs by adolescents include neighborhood cohesiveness, parental support, and participating in multiple extracurricular activities.

73. The correct answer is A. PCP is detectable in urine for several weeks after single use.

74. The correct answer is A. Oral routes of stimulant use have an onset of action within 10 to 15 minutes.

75. The correct answer is B. Smoking PCP causes peak blood concentrations within 5 to 15 minutes.

76. The correct answer is D. Alcohol ingestion at moderate levels causes decreased visual acuity thereby contributing to motor vehicle collisions.

77. The correct answer is C. There are several subsets of serotonin receptors and these receptors can be both excitatory and inhibitory.

78. The correct answer is A. Toxicity associated with opioids, such as Fentanyl, causes slow, shallow respirations.

79. The correct answer is A. An individual who stops taking SSRI antidepressants abruptly is likely to experience headaches, anxiety, and irritability. Depression may also recur.

80. The correct answer is B. Adolescents from Asian groups have historically had the lowest rate of illicit
81. The correct answer is A. Psychosis associated with a pattern of chronic, heavy ingestion of alcoholic beverages is associated with nutritional deficiencies.

82. The correct answer is D. Individuals who inject substances, such as heroin, into the veins, have a high rate of infection with the human immunodeficiency virus (HIV).

83. The correct answer is D. Amphetamines in moderate doses cause increased talkativeness and sociability.

84. The correct answer is B. Studies using psilocybin suggest this substance may be useful in the treatment of obsessive-compulsive disorder.

85. The correct answer is B. Common xanthines consist of caffeine, theobromine, and theophylline. Adenosine is a neurotransmitter; xanthines reduce the action of adenosine in the brain.

86. The correct answer is D. Stimulation of the autonomic nervous system can cause mouth dryness.

87. The correct answer is A. Drug antagonism refers to a diminished or reduced effect of a drug when another substance is present and results in a shift to the right on the dose-response (dose-effect) curve.

88. The correct answer is A. Most commercially prepared beers in the United States have an alcohol content of approximately 4%.

89. The correct answer is A. Endorphins are a naturally occurring morphine-like substance in the brain. There is a possibility that "expecting" an event, such as injecting an opioid, may enhance the effect of the opioid by releasing endorphins.

90. The correct answer is A. Stimulants are prescribed medically to enhance learning, such as occurs with attention-deficit, hyperactivity disorder (ADHD).

91. The correct answer is C. Salvia is not listed as a controlled substance in the United States but ingestion of derivatives of this member of the mint family may produce hallucinations.

92. The correct answer is A. A drug that has a high affinity for fat has a delay in reaching the site of action.

93. The correct answer is B. Schedule II drugs require a written prescription.

94. The correct answer is D. The stress index is significantly correlated with indicators of heavy drinking and alcohol-related arrests in the United States.

95. The correct answer is C. Prenatal use of cocaine causes low infant birth weights.

96. The correct answer is A. Alcohol has a low affinity for plasma proteins, resulting in unbound forms of the substance in the blood.
97. The correct answer is D. Alcohol is metabolized in the liver and forms acetaldehyde.

98. The correct answer is D. On a daily basis, caffeine is believed to be the most commonly used psychoactive drug.

99. The correct answer is B. When compared to narcotic withdrawal syndrome, withdrawal from sedative-hypnotic agents typically lasts longer.

100. The correct answer is C. The quicker the rise in the blood alcohol concentration (BAC), the greater the behavioral effect.