

Introduction to Addiction Science

Addiction Science · Practice Test · 12 Questions

1. Which primary organ of the human body is most significantly affected by addictive substances?

- A) The heart
- B) The brain
- C) The liver
- D) The lungs

2. What is the term for the biological process where the body requires a higher dose of a substance to achieve the same effect?

- A) Withdrawal
- B) Tolerance
- C) Dependence
- D) Relapse

3. Which neurotransmitter is most commonly associated with the 'reward system' in the brain during drug use?

- A) Dopamine
- B) Serotonin
- C) Adrenaline
- D) Melatonin

4. What is the clinical term for the symptoms that occur when a person stops using a substance they have become dependent on?

- A) Craving
- B) Tolerance
- C) Withdrawal
- D) Overdose

5. Addiction is medically classified as a chronic disease of the:

- A) Digestive system
- B) Brain
- C) Endocrine system
- D) Musculoskeletal system

6. Which of these factors is considered a biological influence on the risk of developing an addiction?

- A) Peer pressure
- B) Genetics
- C) School environment
- D) Income level

7. What is the main function of the brain's reward circuit?

- A) To help us memorize facts
- B) To reinforce behaviors necessary for survival
- C) To regulate body temperature
- D) To control involuntary muscle movement

8. According to scientific consensus, addiction involves a change in the brain's:

- A) Bone density
- B) Physical size
- C) Chemical signaling
- D) Skin color

9. Which brain region is primarily responsible for decision-making and impulse control, and is often affected by long-term substance use?

- A) Cerebellum
- B) Prefrontal cortex
- C) Brain stem
- D) Occipital lobe

10. What does the term 'psychoactive' mean when referring to a substance?

- A) It changes brain function and alters perception or mood
- B) It is used exclusively as a medicine
- C) It is a legal substance
- D) It increases physical height

11. Chronic drug use can lead to the down-regulation of dopamine receptors. What is the typical effect of this on the user?

- A) Increased intelligence
- B) Reduced ability to feel pleasure from natural rewards
- C) Enhanced physical strength
- D) Better sleep patterns

12. Which of the following is an example of a depressant substance?

- A) Caffeine
- B) Nicotine
- C) Alcohol
- D) Cocaine