

# Nature and Neurobiology

Addiction Science · Practice Test · 10 Questions

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**1. Which fruit is known to ferment in the wild, causing some animals to exhibit signs of intoxication after consuming it?**

- A) Bananas
- B) Marula fruit
- C) Apples
- D) Mangoes

**2. What is the primary neurotransmitter involved in the brain's 'reward system' that reinforces survival behaviors in both humans and animals?**

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

**3. Some species of bees have been observed to prefer nectar that contains trace amounts of what substance?**

- A) Caffeine
- B) Sugar
- C) Alcohol
- D) Salt

**4. Which common environmental factor can trigger a stress response in animals, similar to how it influences human addiction patterns?**

- A) Heavy rain
- B) Isolation
- C) High altitude
- D) Clear skies

**5. Which substance do researchers often use in controlled laboratory settings to study the brain's reward pathways in animal models?**

- A) Glucose
- B) Water
- C) Oxygen
- D) Protein

**6. In animal biology, the 'reward circuit' evolved primarily to encourage which life-sustaining behavior?**

- A) Sleeping
- B) Socializing
- C) Eating
- D) Hunting

**7. What happens to the brain's reward receptors when an animal is repeatedly exposed to high-stimulus rewards over a long period?**

- A) They increase
- B) They decrease
- C) They disappear
- D) They double

**8. Which group of animals is frequently studied in addiction science due to their highly similar brain structure to humans?**

- A) Reptiles
- B) Fish
- C) Rodents
- D) Birds

**9. Some elephants in nature have been observed seeking out the fermented fruit of the Marula tree, which contains what chemical compound?**

- A) Ethanol
- B) Caffeine
- C) Nicotine
- D) Morphine

**10. Why do scientists study the effects of environmental enrichment on lab animals?**

- A) To increase size
- B) To reduce stress
- C) To change color
- D) To lower body heat