

Astrochemistry Fundamentals

Chemistry · Practice Test · 10 Questions

1. Which chemical element is the most abundant in the universe?

- A) Helium
- B) Oxygen
- C) Hydrogen
- D) Carbon

2. What is the primary chemical compound found in the ice caps of Mars?

- A) Solid carbon dioxide
- B) Solid methane
- C) Solid ammonia
- D) Solid nitrogen

3. Which gas is responsible for the distinct blue colour of Neptune's atmosphere?

- A) Oxygen
- B) Methane
- C) Nitrogen
- D) Neon

4. What is the most common element found in the core of the Sun?

- A) Iron
- B) Hydrogen
- C) Gold
- D) Silicon

5. Which element makes up the majority of the atmosphere on Venus in the form of carbon dioxide?

- A) Carbon
- B) Nitrogen
- C) Helium
- D) Argon

6. Comets are primarily composed of what substances?

- A) Liquid metal
- B) Frozen gases and dust
- C) Solid volcanic rock
- D) Compressed helium

7. Which element, discovered in the Sun's spectrum before being found on Earth, is the second most abundant in the universe?

- A) Helium
- B) Lithium
- C) Oxygen
- D) Neon

8. What is the chemical symbol for the element that makes up the majority of Earth's atmosphere?

- A) O
- B) H
- C) N
- D) C

9. Which metallic element is found in high concentrations in the core of the Earth, contributing to its magnetic field?

- A) Aluminium
- B) Iron
- C) Lead
- D) Calcium

10. Silicate minerals, which make up most of the Earth's crust, are primarily composed of silicon and which other element?

- A) Oxygen
- B) Gold
- C) Hydrogen
- D) Helium