

# Cosmic Geography

Physical Geography · Practice Test · 15 Questions

---

**1. What is the approximate atmospheric pressure at the surface of Mars, expressed as a fraction of Earth's sea-level atmospheric pressure?**

- A) 1/10th
- B) 1/100th
- C) 1/1000th
- D) 1/250th

**2. The Kepler Space Telescope discovered exoplanets by primarily observing which phenomenon?**

- A) Radial velocity shifts
- B) Gravitational lensing
- C) Transits
- D) Microlensing

**3. Which of the following is NOT a recognized classification of dwarf planets by the International Astronomical Union (IAU)?**

- A) Plutoid
- B) Ceres
- C) Haumea
- D) Eris

**4. The Great Red Spot on Jupiter is a persistent storm that has been observed for at least how many centuries?**

- A) One
- B) Two
- C) Three
- D) Four

**5. What is the dominant component of the atmosphere of Venus, responsible for its extreme greenhouse effect?**

- A) Nitrogen
- B) Oxygen
- C) Carbon Dioxide
- D) Sulfuric Acid

**6. The Kuiper Belt is a region of icy bodies located beyond the orbit of which planet?**

- A) Mars
- B) Jupiter
- C) Saturn
- D) Neptune

**7. Which of the following celestial bodies is known to have active cryovolcanism, erupting water, ammonia, or methane?**

- A) Mercury
- B) Ganymede
- C) Titan
- D) Ceres

**8. The Roche limit describes the minimum distance at which a celestial body can approach another without being torn apart by what force?**

- A) Solar wind
- B) Tidal forces
- C) Magnetic fields
- D) Gravitational resonance

**9. What is the name of the hypothetical boundary around a black hole from which nothing, not even light, can escape?**

- A) Schwarzschild radius
- B) Photon sphere
- C) Ergosphere
- D) Accretion disk

**10. The cosmic microwave background radiation is evidence for which cosmological model?**

- A) Steady State model
- B) Big Bang model
- C) Oscillating Universe model
- D) Eternal Inflation model

**11. Which planet in our solar system has the most eccentric orbit (i.e., is furthest from being circular)?**

- A) Mercury
- B) Mars
- C) Neptune
- D) Pluto

**12. What is the primary reason for the blue color of Uranus and Neptune?**

- A) High concentration of methane absorbing red light
- B) Reflection of Earth's blue sky
- C) Presence of liquid water oceans
- D) Abundance of blue-hued atmospheric gases

**13. The region of space around a star where liquid water could potentially exist on the surface of a planet is known as the:**

- A) Oort Cloud
- B) Roche Lobe
- C) Circumstellar Habitable Zone
- D) Galactic Habitable Zone

**14. Which moon in our solar system is the only one known to possess a substantial atmosphere, primarily composed of nitrogen?**

- A) Europa
- B) Io
- C) Titan
- D) Enceladus

**15. The most abundant element in the universe is:**

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