

Advanced Celestial Geography

Space And Astronomy · Practice Test · 15 Questions

1. Which planet possesses an axial tilt of approximately 98 degrees, causing it to roll along its orbital path like a ball?

- A) Uranus
- B) Neptune
- C) Saturn
- D) Venus

2. What is the specific name for the region in space where the solar wind is stopped by the interstellar medium?

- A) Heliosheath
- B) Heliopause
- C) Oort Cloud
- D) Kuiper Belt

3. Which moon in the solar system is the only one known to have a dense atmosphere and liquid methane lakes on its surface?

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

4. The 'Great Red Spot' on Jupiter is a persistent high-pressure storm; what is its approximate lifespan based on historical observation?

- A) 50 years
- B) 150 years
- C) 350 years
- D) 1000 years

5. What is the primary constituent of the thin atmosphere found on the planet Mercury?

- A) Carbon dioxide
- B) Oxygen
- C) Argon
- D) Exosphere of sodium and potassium

6. Which celestial body has the longest orbital period in the solar system, taking roughly 248 Earth years to complete one revolution?

- A) Neptune
- B) Pluto
- C) Eris
- D) Makemake

7. What is the Roche limit in celestial mechanics?

- A) The distance within which a celestial body held together only by its own gravity will disintegrate
- B) The boundary of a black hole's event horizon
- C) The point where solar radiation pressure exceeds gravitational pull
- D) The maximum mass a white dwarf can reach

8. Which dwarf planet is located in the asteroid belt between Mars and Jupiter?

- A) Haumea
- B) Sedna
- C) Ceres
- D) Quaoar

9. The 'Trojan asteroids' are objects that share an orbit with a planet by staying near which specific gravitational points?

- A) Lagrangian points
- B) Perihelion points
- C) Escape velocity nodes
- D) Magnetic poles

10. Which planet has the highest density in the solar system?

- A) Mars
- B) Venus
- C) Earth
- D) Neptune

11. What is the name of the hypothetical cloud of icy objects far beyond the Kuiper Belt, believed to be the source of long-period comets?

- A) The Asteroid Belt
- B) The Oort Cloud
- C) The Scattering Disk
- D) The Hill Sphere

12. What is the approximate rotational period of Venus, which is slower than its orbital period?

- A) 243 Earth days
- B) 116 Earth days
- C) 30 Earth days
- D) 225 Earth days

13. Which giant planet's rings are primarily composed of water ice, with traces of rock and dust?

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

14. What is the term for the line that separates the illuminated and dark hemispheres of a planet or moon?

- A) The Equinox
- B) The Terminator
- C) The Solstice
- D) The Meridian

15. Which moon of Jupiter is considered the most volcanically active body in the entire solar system?

- A) Callisto
- B) Io
- C) Europa
- D) Ganymede