

Cosmic Environmental Science

Environmental Science · Practice Test · 18 Questions

1. Which planet in our solar system has the most extensive ring system?

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

2. What is the primary component of the atmosphere on Mars?

- A) Nitrogen
- B) Oxygen
- C) Carbon Dioxide
- D) Methane

3. Which moon of Jupiter is known for having a subsurface liquid water ocean beneath an icy crust?

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

4. What is the term for the boundary around a black hole from which no light can escape?

- A) Singularity
- B) Event Horizon
- C) Accretion Disk
- D) Photon Sphere

5. Which chemical element is the most abundant in the Sun?

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

6. What phenomenon causes the Aurora Borealis on Earth?

- A) Solar wind interacting with Earth's magnetic field
- B) Refraction of light through ice crystals
- C) Volcanic activity in the Arctic
- D) Chemical reactions in the ozone layer

7. What is the approximate age of the universe according to the Big Bang theory?

- A) 4.5 billion years
- B) 13.8 billion years
- C) 20 billion years
- D) 500 million years

8. Which planet has the longest day, rotating once on its axis every 243 Earth days?

- A) Venus
- B) Mars
- C) Mercury
- D) Saturn

9. What type of galaxy is the Milky Way?

- A) Elliptical
- B) Irregular
- C) Spiral
- D) Lenticular

10. Which planet's axis of rotation is tilted so severely that it essentially rotates on its side?

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

11. The Great Red Spot is a persistent high-pressure storm located on which planet?

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

12. Which planet has a surface temperature hot enough to melt lead due to a runaway greenhouse effect?

- A) Mercury
- B) Mars
- C) Venus
- D) Jupiter

13. What is the nearest star system to our own solar system?

- A) Proxima Centauri
- B) Sirius
- C) Betelgeuse
- D) Alpha Centauri A

14. Which celestial body was reclassified as a dwarf planet in 2006 by the IAU?

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

15. What are the darker, cooler areas on the surface of the Sun called?

- A) Solar flares
- B) Sunspots
- C) Prominences
- D) Coronal holes

16. Which gas, when present in the upper atmosphere, protects Earth from ultraviolet radiation?

- A) Carbon Dioxide
- B) Methane
- C) Ozone
- D) Argon

17. What is the term for the gravitational pull that keeps the Moon in orbit around the Earth?

- A) Centrifugal force
- B) Magnetic attraction
- C) Gravitational force
- D) Inertia

18. What is the name of the region beyond Neptune that contains many icy objects and dwarf planets?

- A) Asteroid Belt
- B) Oort Cloud
- C) Kuiper Belt
- D) Galactic Halo