Cosmic Environmental Science

Environmental Science · Answer Key · 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

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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

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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

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