Astronomy Knowledge Base

Astronomy · Answer Key · 25 Questions

1. Which planet has the longest day, taking approximately 243 Earth days to complete one rotation?

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

2. What is the name of the largest moon of Saturn, which is the only moon known to have a dense atmosphere?

A) Europa
B) Titan
C) Ganymede
D) Io

3. Which galaxy is on a collision course with the Milky Way and is expected to merge with it in about 4.5 billion years?

A) Triangulum
B) Sombrero
C) Andromeda
D) Whirlpool

4. What is the primary gas that makes up the atmosphere of Mars?

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

5. Which planet in our solar system has the most extensive and visible ring system?

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

6. What is the term for a star that has exhausted its nuclear fuel and collapsed into a very dense object, often no larger than a city?

A) Red Giant
B) Neutron Star
C) White Dwarf
D) Supernova

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7. Which planet is known as the 'Ice Giant' and rotates on its side at an axial tilt of about 98 degrees?

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

8. What is the boundary surrounding a black hole from which nothing, not even light, can escape?

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

9. Which of the following elements is the most abundant in the universe?

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

10. What is the name of the region beyond Neptune that contains icy bodies and dwarf planets?

A) Oort Cloud
B) Kuiper Belt
C) Asteroid Belt
D) Heliosphere

11. Which planet is located closest to the Sun?

A) Venus
B) Earth
C) Mercury
D) Mars

12. What causes the characteristic blue color of Neptune and Uranus?

A) Iron oxide
B) Methane in the atmosphere
C) Liquid water oceans
D) Helium clouds

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13. Which moon of Jupiter is thought to have a liquid water ocean beneath its icy crust?

A) Europa
B) Callisto
C) Amalthea
D) Himalia

14. What type of star is our Sun classified as?

A) Red Dwarf
B) Blue Giant
C) G-type Main-Sequence Star
D) White Dwarf

15. How long does it take for light from the Sun to reach the Earth on average?

A) 8 minutes
B) 8 seconds
C) 8 hours
D) 8 days

16. What is the name of the largest planet in our solar system?

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

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

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

18. What is a 'light-year' a measurement of?

A) Time
B) Brightness
C) Distance
D) Speed

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19. Which planet is often referred to as Earth's 'sister planet' due to its similar size and mass?

A) Mars
B) Mercury
C) Venus
D) Neptune

20. What phenomenon occurs when the Moon passes directly between the Sun and the Earth?

A) Lunar eclipse
B) Solar eclipse
C) Planetary transit
D) Opposition

21. Which gas giant has a massive storm system known as the Great Red Spot?

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

22. What is the center of our galaxy, the Milky Way, believed to contain?

A) A massive star cluster
B) A supermassive black hole
C) A dense nebula
D) A large pulsar

23. Which planet has the highest surface temperature in the solar system?

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

24. What is the study of the origin and development of the universe called?

A) Astrology
B) Cosmology
C) Exobiology
D) Astrogeology

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25. What color do stars with the lowest surface temperatures appear to be?

A) Blue
B) White
C) Yellow
D) Red