Aerospace Engineering and Space Exploration

Aerospace Engineering · Answer Key · 15 Questions

1. Which chemical element is the primary component of the Sun's mass?

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

2. What is the name of the first human-made object to reach interstellar space?

A) Voyager 1
B) Hubble Telescope
C) Cassini
D) Curiosity Rover

3. Which planet has the longest day in the solar system, taking about 243 Earth days to rotate once on its axis?

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

4. What type of engine provides thrust for a rocket by accelerating a propellant to high speeds through a nozzle?

A) Internal combustion engine
B) Jet turbine
C) Rocket engine
D) Steam engine

5. What is the approximate speed of light in a vacuum?

A) 300,000 km/s
B) 150,000 km/s
C) 1,000,000 km/s
D) 3,000 km/s

6. Which moon is the largest in the solar system, even surpassing the size of the planet Mercury?

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

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7. What is the term for the velocity a rocket must achieve to break free from a planet's gravitational pull?

A) Orbital velocity
B) Escape velocity
C) Terminal velocity
D) Mach speed

8. The 'Great Red Spot' is a massive, persistent high-pressure storm located on which planet?

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

9. Which spacecraft was the first to land a human on the Moon in 1969?

A) Apollo 11
B) Gemini 8
C) Mercury-Redstone 3
D) Vostok 1

10. What invisible force keeps planets in orbit around the Sun?

A) Magnetism
B) Gravity
C) Nuclear fusion
D) Atmospheric pressure

11. What is the primary material used in the heat shield of a spacecraft designed for atmospheric reentry?

A) Ablative materials
B) Aluminum alloy
C) Transparent glass
D) Carbon fiber

12. Which planet is known as the 'Red Planet' due to the iron oxide on its surface?

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

13. What is the boundary between Earth's atmosphere and outer space called?

A) The troposphere
B) The stratosphere
C) The Kármán line
D) The ionosphere

14. Which telescope was launched in 2021 to observe the universe in infrared light?

A) James Webb Space Telescope
B) Hubble Space Telescope
C) Kepler Space Telescope
D) Spitzer Space Telescope

15. What is the main source of energy for the International Space Station?

A) Nuclear reactors
B) Solar panels
C) Hydrogen fuel cells
D) Chemical batteries

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