Fundamentals of Aerospace Engineering

Aerospace Engineering · Answer Key · 12 Questions

1. Which of the four forces of flight acts in the opposite direction of lift?

A) Thrust
B) Drag
C) Gravity
D) Airspeed

2. What is the primary gas that makes up the majority of Earth's atmosphere?

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

3. Which layer of the atmosphere is closest to the Earth's surface?

A) Troposphere
B) Stratosphere
C) Mesosphere
D) Thermosphere

4. What is the unit of measurement for force in the International System of Units (SI)?

A) Joule
B) Watt
C) Newton
D) Pascal

5. Which component of an airplane is responsible for creating lift?

A) Fuselage
B) Wing
C) Landing gear
D) Vertical stabilizer

6. What is the speed of sound at sea level under standard conditions approximately?

A) 120 km/h
B) 343 m/s
C) 1000 m/s
D) 50 m/s

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7. What kind of engine relies on atmospheric oxygen for combustion?

A) Rocket engine
B) Ion thruster
C) Jet engine
D) Nuclear thermal rocket

8. In orbital mechanics, what is the point in an orbit farthest from the Earth called?

A) Perigee
B) Apogee
C) Zenith
D) Nadir

9. Which law of motion explains why a rocket moves upward when it expels gas downward?

A) Newton's First Law
B) Newton's Second Law
C) Newton's Third Law
D) Law of Universal Gravitation

10. What is the term for the curved shape of an airplane wing designed to produce lift?

A) Fuselage
B) Airfoil
C) Empennage
D) Slats

11. Which property of a fluid refers to its resistance to flow?

A) Density
B) Viscosity
C) Pressure
D) Temperature

12. What is the primary function of a spacecraft's heat shield during reentry?

A) To increase speed
B) To protect from extreme thermal energy
C) To communicate with ground control
D) To generate electricity

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