Aerospace Engineering Fundamentals

Aerospace Engineering · Answer Key · 10 Questions

1. Which of the four forces of flight is responsible for pulling an aircraft toward the Earth?

A) Lift
B) Thrust
C) Drag
D) Weight

2. What is the primary purpose of the vertical stabiliser located on the tail of an aircraft?

A) To control pitch
B) To provide directional stability
C) To generate lift
D) To reduce engine noise

3. Which layer of the atmosphere do most commercial jet aircraft fly in to avoid weather disturbances?

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

4. In rocketry, what is the term for the speed required for an object to break free from Earth's gravitational pull?

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

5. What component of a jet engine is responsible for compressing incoming air before it reaches the combustion chamber?

A) Compressor
B) Turbine
C) Nozzle
D) Propeller

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6. Which of Newton's Laws of Motion best explains how a rocket generates thrust by expelling gas in the opposite direction?

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

7. What part of an airplane wing is used to change the camber of the wing to increase lift during takeoff and landing?

A) Aileron
B) Flap
C) Rudder
D) Fuselage

8. Which gas makes up the majority of the Earth's atmosphere, through which aerospace vehicles must travel?

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

9. What is the name of the central body of an aircraft that holds the crew, passengers, and cargo?

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

10. Which agency is the primary government organisation responsible for the civilian space program in the United States?

A) ESA
B) NASA
C) JAXA
D) CSA

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