

-
- OPCION A:** decreases and the horizontal component of lift increases.
OPCION B: increases and the horizontal component of lift decreases.
OPCION C: decreases and the horizontal component of lift remains constant.
OPCION D:
-

- PREG20080202 If the airplane attitude remains in a new position after the elevator control is pressed forward and released, the airplane displays **A**
- OPCION A:** neutral longitudinal static stability.
OPCION B: positive longitudinal static stability.
OPCION C: neutral longitudinal dynamic stability.
OPCION D:
-

- PREG20080203 Longitudinal dynamic instability in an airplane can be identified by **B**
- OPCION A:** bank oscillations becoming progressively steeper.
OPCION B: pitch oscillations becoming progressively steeper.
OPCION C: Trilatitudinal roll oscillations becoming progressively steeper.
OPCION D:
-

- PREG20080204 Longitudinal stability involves the motion of the airplane controlled by its **B**
- OPCION A:** rudder.
OPCION B: elevator.
OPCION C: ailerons.
OPCION D:
-

- PREG20080205 What changes in airplane longitudinal control must be made to maintain altitude while the airspeed is being decreased? **B**
- OPCION A:** Increase the angle of attack to produce more lift than drag.
OPCION B: Increase the angle of attack to compensate for the decreasing lift.
OPCION C: decrease the angle of attack to compensate for the increasing drag.
OPCION D:
-

- PREG20080206 If the airplane attitude initially tends to return to its original position after the elevator control is pressed forward and released, the airplane displays **B**
- OPCION A:** positive dynamic stability.
OPCION B: positive static stability.
OPCION C: neutral dynamic stability.
OPCION D:
-

- PREG20080207 Figure 5 **B**
The horizontal dashed line from point C to point E represents the
- OPCION A:** ultimate load factor.
OPCION B: positive limit load factor.
OPCION C: airspeed range for normal operations.
OPCION D:
-

- PREG20080208 Figure 5 A
The vertical line from point E to point F is represented on the airspeed indicator by the
- OPCION A:** upper limit of the yellow arc.
OPCION B: upper limit of the green arc.
OPCION C: blue radial line.
OPCION D:
-
- PREG20080209 A propeller rotating clockwise as seen from the rear, creates a spiraling slipstream the spiralling slipstream along with torque effect, tends to rotate the airplane to the B
- OPCION A:** right around the vertical axis, and to the left around the longitudinal axis.
OPCION B: left around the vertical axis, and to the right around the longitudinal axis.
OPCION C: left around the vertical axis, and to the left around the longitudinal axis.
OPCION D:
-
- PREG20080210 Which maximum range factor decreases as weight decreases? B
- OPCION A:** Altitude.
OPCION B: Airspeed.
OPCION C: Angle of attack.
OPCION D:
-
- PREG20080211 Choose the correct statement regarding wake turbulence. B
- OPCION A:** Vortex generation begins with the initiation of the takeoff roll.
OPCION B: The primary hazard is loss of control because of induced roll.
OPCION C: The greatest vortex strength is produced when the generating airplane is heavy, clean, and fast.
OPCION D:
-
- PREG20080212 During a takeoff made behind a departing large jet airplane, the pilot can minimize the hazard of wingtip vortices by A
- OPCION A:** being airborne prior to reaching the jet's flightpath until able to turn clear of its wake.
OPCION B: maintaining extra speed on takeoff and climbout.
OPCION C: extending the takeoff roll and not rotating until well beyond the jet's rotation point.
OPCION D:
-
- PREG20080213 Which procedure should you follow to avoid wake turbulence if a large jet crosses your course from left to right approximately 1 mile ahead and at your altitude? A
- OPCION A:** Make sure you are slightly above the path of the jet.
OPCION B: Slow your airspeed to V_a and maintain altitude and course.
OPCION C: Make sure you are slightly below the path of the jet and perpendicular to the course.

OPCION D:

PREG20080214 To avoid possible wake turbulence from a large jet aircraft that has just landed prior to your takeoff, at which point on the runway should you plan to become airborne? A

OPCION A: Past the point where the jet touched down.

OPCION B: At the point where the jet touched down, or just prior to this point.

OPCION C: Approximately 500 feet prior to the point where the jet touched down.

OPCION D:

PREG20080215 When landing behind a large aircraft, which procedure should be followed for vortex avoidance? A

OPCION A: Stay above its final approach flightpath all the way to touchdown.

OPCION B: Stay below and to one side of its final approach flightpath.

OPCION C: Stay well below its final approach flightpath and land at least 2000 feet behind.

OPCION D:

PREG20080166 (Ver Figura 2) Select the correct statement regarding stall speeds. The airplane will stall A

OPCION A: 10 knots higher in a power-on 60° bank with gear and flaps up than with gear and flaps down.

OPCION B: 25 knots lower in a power-off, flaps up, 60° bank, than in a power-off, flaps down, wings-level configuration.

OPCION C: 10 knots higher in a 45° bank, power-on stall than in a wings-level stall with flaps up.

OPCION D:

PREG20080169 To increase the rate of turn and at the same time decrease the radius, a pilot should C

OPCION A: maintain the bank and decrease airspeed.

OPCION B: increase the bank and increase airspeed.

OPCION C: increase the bank and decrease airspeed.

OPCION D:

PREG20080170 Which is correct with respect to rate and radius of turn for an airplane flown in a coordinated turn at a constant altitude? A

OPCION A: For a specific angle of bank and airspeed, the rate and radius of turn will not vary.

OPCION B: To maintain a steady rate of turn, the angle of bank must be increased as the airspeed is decreased.

OPCION C: The faster the true airspeed, the faster the rate and larger the radius of turn regardless of the angle of bank.

OPCION D:

PREG20080171 Why is it necessary to increase back elevator pressure to maintain altitude during a turn? To compensate for the A

-
- OPCION A:** loss of vertical component of lift.
OPCION B: loss of the horizontal component of lift and the increase in centrifugal force.
OPCION C: rudder deflection and slight opposite aileron throughout the turn.
OPCION D:
-

- PREG20080172 To maintain altitude during a turn, the angle of attack must be increased to compensate for the decrease in the B
- OPCION A:** forces opposing the resultant component of drag.
OPCION B: vertical component of lift.
OPCION C: horizontal component of lift.
OPCION D:
-

- PREG20080173 Stall speed is affected by A
- OPCION A:** weight, load factor, and power.
OPCION B: load factor, angle of attack, and power.
OPCION C: angle of attack, weight, and air density.
OPCION D:
-

- PREG20080174 A rectangular wing, as compared to other wing planforms, has a tendency to stall first at the B
- OPCION A:** wingtip, with the stall progression toward the wing root.
OPCION B: wing root, with the stall progression toward the wing tip.
OPCION C: center trailing edge, with the stall progression outward toward the wing root and tip.
OPCION D:
-

- PREG20080175 By changing the angle of attack of a wing, the pilot can control the airplane's A
- OPCION A:** lift, airspeed, and drag.
OPCION B: lift, airspeed, and CG.
OPCION C: lift and airspeed, but not drag.
OPCION D:
-

- PREG20080176 The angle of attack of a wing directly controls the C
- OPCION A:** angle of incidence of the wing.
OPCION B: amount of airflow above and below the wing.
OPCION C: distribution of pressures acting on the wing.
OPCION D:
-

- PREG20080177 In theory, if the angle of attack and other factors remain constant and the airspeed is doubled, the lift produced at the higher speed will be C
- OPCION A:** the same as at the lower speed.
OPCION B: two times greater than at the lower speed.
OPCION C: four times greater than at the lower speed.
OPCION D:
-

PREG20080178 An aircraft wing is designed to produce lift resulting from a difference in the negative air pressure below and vacuum above the wing's surface. C

OPCION A: negative air pressure below and vacuum above the wing's surface.

OPCION B: vacuum below the wing's surface and greater air pressure above the wing's surface.

OPCION C: higher air pressure below the wing's surface and lower air pressure above the wing's surface.

OPCION D:

PREG20080179 On a wing, the force of lift acts perpendicular to and the force of drag acts parallel to the chord line. B

OPCION A: chord line.

OPCION B: flightpath.

OPCION C: longitudinal axis.

OPCION D:

PREG20080180 Which statement is true, regarding the opposing forces acting on an airplane in steady-state level flight? A

OPCION A: These forces are equal.

OPCION B: Thrust is greater than drag and weight and lift are equal.

OPCION C: Thrust is greater than drag and lift is greater than weight.

OPCION D:

PREG20080181 The angle of attack at which a wing stalls remains constant regardless of weight, dynamic pressure, bank angle, or pitch attitude. A

OPCION A: weight, dynamic pressure, bank angle, or pitch attitude.

OPCION B: dynamic pressure, but varies with weight, bank angle, and pitch attitude.

OPCION C: weight and pitch attitude, but varies with dynamic pressure and bank angle.

OPCION D:

PREG20080182 In small airplanes, normal recovery from spins may become difficult if the CG is too far rearward and rotation is around the longitudinal axis. B

OPCION A: CG is too far rearward and rotation is around the longitudinal axis.

OPCION B: CG is too far rearward and rotation is around the CG.

OPCION C: spin is entered before the stall is fully developed.

OPCION D:

PREG20080183 Recovery from a stall in any airplane becomes more difficult when its center of gravity moves aft. A

OPCION A: center of gravity moves aft.

OPCION B: center of gravity moves forward.

OPCION C: elevator trim is adjusted nosedown.

OPCION D:

PREG20080184 If an airplane is loaded to the rear of its CG range, it will tend to be unstable about its vertical axis. B

OPCION A: vertical axis.

-
- OPCION B:** lateral axis.
OPCION C: longitudinal axis.
OPCION D:
-

- PREG20080185 An airplane leaving ground effect will B
- OPCION A:** experience a reduction in ground friction and require a slight power reduction.
OPCION B: experience an increase in induced drag and require more thrust.
OPCION C: require a lower angle of attack to maintain the same lift coefficient.
OPCION D:
-

- PREG20080186 If airspeed is increased during a level turn, what action would be necessary to maintain altitude? The angle of attack C
- OPCION A:** and angle of bank must be decreased.
OPCION B: must be increased or angle of bank decreased.
OPCION C: must be decreased or angle of bank increased.
OPCION D:
-

- PREG20080187 The stalling speed of an airplane is most affected by C
- OPCION A:** changes in air density.
OPCION B: variations in flight altitude.
OPCION C: variations in airplane loading.
OPCION D:
-

- PREG20080188 An airplane will stall at the same A
- OPCION A:** angle of attack regardless of the attitude with relation to the horizon.
OPCION B: airspeed regardless of the attitude with relation to the horizon.
OPCION C: angle of attack and attitude with relation to the horizon.
OPCION D:
-

- PREG20080189 Figure 3 B
If an airplane glides at an angle of attack of 10°, how much altitude will it lose in 1 mile?
- OPCION A:** 240 feet.
OPCION B: 480 feet.
OPCION C: 960 feet.
OPCION D:
-

- PREG20080190 Figure 3 C
How much altitude will this airplane lose in 3 miles of gliding at an angle of attack of 8°?
- OPCION A:** 440 feet.
OPCION B: 880 feet.
OPCION C: 1,320 feet.

OPCION D:

PREG20080191 Figure 3 C
The L/D ratio at a 2° angle of attack is approximately the same as the L/D ratio for a

OPCION A: 9.75° angle of attack.

OPCION B: 10.5° angle of attack.

OPCION C: 16.5° angle of attack.

OPCION D:

PREG20080192 If the same angle of attack is maintained in ground effect as when out of A
ground effect, lift will

OPCION A: increase, and induced drag will decrease.

OPCION B: decrease, and parasite drag will increase.

OPCION C: increase, and induced drag will increase.

OPCION D:

PREG20080193 What performance is characteristic of flight at maximum lift/drag ratio in a B
propeller-driven airplane? Maximun

OPCION A: gain in altitude over a given distance.

OPCION B: range and maximum distance glide.

OPCION C: coefficient of lift and minimum coefficient of drag.

OPCION D:

PREG20080194 Which is true regarding the forces acting on an aircraft in a steady-state C
descent? The sum of all

OPCION A: upward forces is less than the sum of all downward forces.

OPCION B: rearward forces is greater than the sum of all forward forces.

OPCION C: forward forces is equal to the sum of all rearward forces.

OPCION D:

PREG20080196 During the transition from straight-and-level flight to a climb, the angle of C
attack is increased and lift

OPCION A: is momentarily decreased.

OPCION B: remains the same.

OPCION C: is momentarily increased.

OPCION D:

PREG20080148 If an airplane category is listed as utility, it would mean that this airplane B
could be operated in which of the following maneuvers?

OPCION A: Limited acrobatics, excluding spins.

OPCION B: Limited acrobatics, including spins (if approved).

OPCION C: Any maneuver except acrobatics or spins.

OPCION D:

PREG20080149	The ratio between the total airload imposed on the wing and the gross weight of an aircraft in flight is known as	A
OPCION A:	load factor and directly affects stall speed.	
OPCION B:	aspect load and directly affects stall speed.	
OPCION C:	load factor and has no relation with stall speed.	
OPCION D:		

PREG20080150	Load factor is the lift generated by the wings of an aircraft at any given time	A
OPCION A:	divided by the total weight of the aircraft.	
OPCION B:	multiplied by the total weight of the aircraft.	
OPCION C:	divided by the basic empty weight of the aircraft.	
OPCION D:		

PREG20080151	For a given angle of bank, in any airplane, the load factor imposed in a coordinated constant-altitude turn	A
OPCION A:	is constant and the stall speed increases.	
OPCION B:	varies with the rate of turn.	
OPCION C:	is constant and the stall speed decreases.	
OPCION D:		

PREG20080152	Airplane wing loading during a level coordinated turn in smooth air depends upon the	B
OPCION A:	rate of turn.	
OPCION B:	angle of bank.	
OPCION C:	true airspeed.	
OPCION D:		

PREG20080153	In a rapid recovery from a dive, the effects of load factor would cause the stall speed to	A
OPCION A:	increase.	
OPCION B:	decrease.	
OPCION C:	not vary.	
OPCION D:		

PREG20080154	If an aircraft with a gross weight of 2,000 pounds was subjected to a 60° constant-altitude bank, the total load would be	B
OPCION A:	3,000 pounds.	
OPCION B:	4,000 pounds.	
OPCION C:	12,000 pounds.	
OPCION D:		

PREG20080155	While maintaining a constant angle of bank and altitude in a coordinated turn, an increase in airspeed will	B
OPCION A:	decrease the rate of turn resulting in a decreased load factor.	

-
- OPCION B:** decrease the rate of turn resulting in no change in load factor.
OPCION C: increase the rate of turn resulting in no change in load factor.
OPCION D:
-

- PREG20080156 Lift on a wing is most properly defined as the A
- OPCION A:** force acting perpendicular to the relative wind.
OPCION B: differential pressure acting perpendicular to the chord of the wing.
OPCION C: reduced pressure resulting from a laminar flow over the upper camber of an airfoil, which acts perpendicular to the mean camber.
OPCION D:
-

- PREG20080157 While holding the angle of bank constant in a level turn, if the rate of turn is varied the load factor would A
- OPCION A:** remain constant regardless of air density and the resultant lift vector.
OPCION B: vary depending upon speed and air density provided the resultant lift vector varies proportionately.
OPCION C: vary depending upon the resultant lift vector.
OPCION D:
-

- PREG20080158 The need to slow an aircraft below V_a is brought about by the following weather phenomenon: B
- OPCION A:** High density altitude which increases the indicated stall speed.
OPCION B: Turbulence which causes an increase in stall speed.
OPCION C: Turbulence which causes a decrease in stall speed.
OPCION D:
-

- PREG20080159 In theory, if the airspeed of an airplane is doubled while in level flight, parasite drag will become C
- OPCION A:** twice as great.
OPCION B: half as great.
OPCION C: four times greater.
OPCION D:
-

- PREG20080160 As airspeed decreases in level flight below that speed for maximum lift/drag ratio, total drag of an airplane B
- OPCION A:** decreases because of lower parasite drag.
OPCION B: increases because of increased induced drag.
OPCION C: increases because of increased parasite drag.
OPCION D:
-

- PREG20080161 If the airspeed is increased from 90 knots to 135 knots during a level 60° banked turn, the load factor will C
- OPCION A:** increase as well as the stall speed.
OPCION B: decrease and the stall speed will increase.
OPCION C: remain the same but the radius of turn will increase.

OPCION D:

PREG20080162 (Ver figura 1) A
At the airspeed represented by point A, in steady flight, the airplane will

OPCION A: have its maximum L/D ratio.

OPCION B: have its minimum L/D ratio.

OPCION C: be developing its maximum coefficient of lift.

OPCION D:

PREG20080163 (Ver Figura 1) B
At an airspeed represented by point B, in steady flight, the pilot can expect to obtain the airplane's maximum

OPCION A: endurance.

OPCION B: glide range.

OPCION C: coefficient of lift.

OPCION D:

PREG20080164 Which statement is true relative to changing angle of attack? B

OPCION A: A decrease in angle of attack will increase pressure below the wing, and decrease drag.

OPCION B: An increase in angle of attack will increase drag.

OPCION C: An increase in angle of attack will decrease pressure below the wing, and increase drag.

OPCION D:

PREG20080165 (Ver Figura 2) C
Select the correct statement regarding stall speeds.

OPCION A: Power-off stalls occur at higher airspeeds with the gear and flaps down.

OPCION B: In a 60° bank the airplane stalls at a lower airspeed with the gear up.

OPCION C: Power-on stalls occur at lower airspeeds in shallower banks.

OPCION D:

PREG20080167 Which is true regarding the use of flaps during level turns? B

OPCION A: The lowering of flaps increases the stall speed.

OPCION B: The raising of flaps increases the stall speed.

OPCION C: Raising flaps will require added forward pressure on the yoke or stick.

OPCION D:

PREG20080168 One of the main functions of flaps during the approach and landing is to B

OPCION A: decrease the angle of descent without increasing the airspeed.

OPCION B: provide the same amount of lift at a slower airspeed.

OPCION C: decrease lift, thus enabling a steeper-than-normal approach to be made.

OPCION D:
