

- S1-23. The purpose of a kill switch is?
A. Shut off the fuel to the carburetor.
B. Shut down the powerplant.
C. Shut down the communication system.
- S1-24. For a typical aircraft communications system, what do the occupants in the aircraft have to do to communicate with each other?
A. Use the push-to-talk switch.
B. Nothing but speak to each other.
C. Release the push-to-talk switch.
- S1-25. How does the pilot communicate to other aircraft and the airport tower?
A. Use the push-to-talk switch.
B. Nothing but speak to them.
C. Release the push-to-talk switch.
- S1-26. Which condition is most favorable to the development of carburetor icing?
A. Any temperature below freezing and a relative humidity of less than 50 percent.
B. Between 32° F and 50° F. and low humidity.
C. Between 20° F. and 70° F. and high humidity.

Aerodynamics

- S1-27. What is the relationship of lift, drag, thrust, and weight when the aircraft is in straight-and-level flight?
A. Lift equals weight, and thrust equals drag.
B. Lift, drag, and weight equal thrust.
C. Lift and weight equal thrust and drag.
- S1-28. When are the four forces that act on an airplane in equilibrium?
A. During un-accelerated flight.
B. When the aircraft is accelerating.
C. When the aircraft is at rest on the ground.
- S1-29. The term "angle of attack" is defined as the angle?
A. Between the wing chord line and the relative wind.
B. Between the airplane's climb angle and the horizon.
C. Formed by the longitudinal axis of the airplane and the chord line of the wing.
- S1-30. The four forces acting on an airplane in flight are?
A. Lift, weight, thrust & drag B. Lift, weight, gravity & thrust C. Lift, gravity, power & friction.
- S1-31. The angle of attack at which an airplane wing stalls will?
A. Increase if the CG is moved forward.
B. Change with an increase in gross weight.
C. Remain the same regardless of gross weight.
- S1-32. The angle between the chord line of an airfoil and the relative wind is known as the angle of?
A. Lift B. Attack C. Incidence
- S1-33. Which basic flight maneuver increases the load factor on an airplane as compared to straight-and-level flight?
A. Climbs B. Turns C. Stalls
- S1-34. If an airplane weighs 1,000 pounds, what approximate weight would the airplane structure be required to support during a 60 degree banked turn while maintaining altitude?
A. 1,000 pounds. B. 1,400 pounds. C. 2,000 pounds.