

TEST YOUR KNOWLEDGE - COMMERCIAL LICENCE – AIRCRAFT TECHNICAL

1. If the angle of attack and other factors remain constant and the airspeed is doubled, the lift produced at a higher speed will be
 - a) twice that at the lower speed
 - b) three times more than that at the lower speed
 - c) four times more than that at the lower speed
2. A wing is designed to produce lift resulting from relatively
 - a) high air pressure below and above the wing surface
 - b) low pressure below and high pressure above the wing surface
 - c) high pressure below and low pressure above the wing surface
3. Lift on a wing is most properly defined as the
 - a) differential pressure acting perpendicular to the chord of the wing
 - b) force produced perpendicular to the relative airflow
 - c) reduced pressure resulting from a smooth flow of air over a curved surface
4. On a wing, the lift force acts perpendicular to and the drag force acts parallel to the
 - a) chordline
 - b) longitudinal axis
 - c) flightpath
5. During flight at zero angle of attack the pressure along the upper surface of the wing would be
 - a) less than atmospheric pressure
 - b) equal to atmospheric pressure
 - c) greater than atmospheric pressure
6. Landing speed (TAS) for a particular weight and configuration of an aircraft
 - a) will increase as relative humidity is decreased
 - b) will increase as altitude is increased
 - c) will remain constant regardless of altitude
7. If airspeed decreases during a level turn, the action to maintain altitude is
 - a) to decrease the angle of attack or increase the angle of bank
 - b) to increase the angle of attack and the angle of bank
 - c) to increase the angle of attack or decrease the angle of bank
8. An aircraft turns when banked because the
 - a) horizontal component of lift exceeds the vertical component of lift
 - b) horizontal component of lift forces the aircraft to turn
 - c) resultant lift acts outward and upward from the centre of the turn

9. When the load factor is kept constant during a level coordinated turn, it is true to say that
- a) an increase in airspeed would result in the same turn radius
 - b) an increase in airspeed results in a decrease in turn radius
 - c) an increase in airspeed results in an increase in turn radius
10. If the rate of turn is varied while holding the angle of bank constant in a level turn, the load factor would
- a) remain constant
 - b) vary depending upon speed
 - c) vary depending upon weight

Answers

1. C	2. C	3. B	4. C	5. A
6. B	7. C	8. B	9. C	10. A