



VIRGINIA FLIGHT SCHOOL SAFETY ARTICLES – NO 09/08

SAFETY QUIZ – AIR LAW/INSTRUMENTS

1. Aircraft A is overtaking aircraft B on a converging track and at a relative bearing from B of 120 degrees (4 o'clock position) at a similar level. In these circumstances:

- (a) A must give way to B since B is on the right of A.
- (b) B must give way to A since B is overtaking A.
- (c) A must give way to B since A is overtaking B.
- (d) B must give way to A since B is overtaking A.

2. In the circumstances of question 1, at night aircraft A would see the following navigation lights of aircraft B:

- (a) The rear navigation light.
- (b) The RH navigation light.
- (c) Both the LH and RH navigation lights.
- (d) All three navigation lights.

3. A glider and a powered aircraft are on converging headings at similar altitudes with the glider in the powered aircraft's 9 o'clock position. The powered aircraft is in the glider's 2 o'clock position. In these circumstances:

- a) The glider must give way to the powered aircraft because the powered aircraft is on the glider's right.
- (b) The glider must give way to the powered aircraft because the glider is overtaking.
- (c) The powered aircraft must give way to the glider because it is a glider.
- (d) The powered aircraft must give way to the glider since the glider, by definition, is not overtaking.

4. If the static port of an aircraft became blocked during a climb, the vertical speed indicator would:

- (a) Remain at the previously indicated rate of climb.
- (b) Fall to a zero rate of climb indication.
- (c) Indicate a maximum rate of climb.
- (d) Indicate a maximum rate of descent.

5. Which of the following cockpit instruments respond to the rate of roll?

- (a) Artificial horizon.
- (b) Directional gyro.
- (c) Turn coordinator.
- (d) Rate-of-turn indicator.

QUIZ ANSWERS

1. (c) An aircraft is said to be overtaking when within an angle of 70 degrees from the tail of another. At this point the wingtip navigation lights can not be seen.
2. (a) The wing tip (forward) navigation lights are designed so that they are not visible from the rear within a relative bearing of 70 degrees from the plane of symmetry. The definition of overtaking is based on this.
3. (c) Powered aircraft must give way to gliders.
4. (b) The bleed within the instrument would equalise the pressures either side of the capsule, resulting in a zero reading.
5. (c) A rate-of-turn indicator responds to rate of yaw but a turn coordinator also has a rate of roll input.