Take Off and Landing

1. A single-engine aeroplane is fitted with the propeller rotating in a clockwise direction when viewed from the cockpit. If the aeroplane tended to swing to the right during the take-off roll, the most probable cause would be

   a) torque effect
   b) slipstream effect
   c) a cross-wind from the right
   d) raising the tail too early

2 In a tailwheel aircraft with a propeller that rotates clockwise when viewed from the cockpit, which of the following would cause a yaw to the right

   a) slipsteam effect
   b) propeller torque
   c) asymmetric blade effect
   d) crosswind from the right

3 Yaw in a tailwheel aircraft before the tail is raised is mostly caused by

   a) slipstream effect
   b) propeller torque
   c) asymmetric blade effect
   d) gyroscopic effect

4 As the tail is raised on take off in a tailwheel aircraft with a clockwise rotating propeller when viewed from the cockpit, yaw to the left is most likely caused by

   a) slipstream effect
   b) propeller torque
   c) asymmetric blade effect
   d) gyroscopic effect

5. 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
   d) will decrease as altitude is increased

6 In a tail dragging aircraft, the propeller rotates clockwise when viewed from behind. During the initial application of power at the commencement of the take-off roll the aircraft wants to veer off to the left hand side of the runway. Which of the following factors **is not** a cause of the control difficulty

a) asymmetric blade effect
b) gyroscopic effect
c) slipstream effect
d) torque reaction

7 Undershoot shear results when an aircraft passes through an area of decreased headwind. Should this happen on approach the aircraft will experience

a) an increase in rate of descent and airspeed
b) a decrease in rate of descent and airspeed
c) a decrease in rate of descent and an increase in airspeed
d) an increase in rate of descent and a decrease in airspeed

Answers

1.c 2.d 3.c 4.d 5.b 6.b 7.d