

Transport Canada Private Pilot License Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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SAMPLE

Questions

- 1. Which condition could prompt a pilot to issue a PIREP for turbulence?**
 - A. Visibility over 5 miles**
 - B. Wind speeds below 10 knots**
 - C. Surface winds less than 10 knots**
 - D. Reporting significant turbulence during flight**
- 2. What are the principal properties of the atmosphere that contribute to weather phenomena?**
 - A. Temperature, pressure, and humidity**
 - B. Expansion, compression, and mobility**
 - C. Dewpoint, wind, and turbulence**
 - D. Sunlight, moisture, and temperature**
- 3. What is the minimum visibility required for an aeroplane to depart from an aerodrome within a control zone during special VFR?**
 - A. 1 mile**
 - B. 2 miles**
 - C. 3 miles**
 - D. 5 miles**
- 4. What is the international emergency frequency for aviation communication?**
 - A. 121.5 MHz**
 - B. 123.45 MHz**
 - C. 119.0 MHz**
 - D. 130.0 MHz**
- 5. Under day VFR in uncontrolled airspace at or above 1,000 feet AGL, what is the required visibility?**
 - A. 3 miles visibility with no cloud restrictions**
 - B. 1 mile visibility with 1,000 feet vertically from clouds**
 - C. 1 mile visibility with 500 feet vertically and 2,000 feet horizontally from clouds**
 - D. 5 miles visibility with no cloud restrictions**

- 6. An elongated area of low pressure on a weather map is referred to as what?**
- A. Wave**
 - B. Trough**
 - C. Ridge**
 - D. Front**
- 7. How often must a private pilot under 40 years of age pass a medical examination to continue flying?**
- A. 30 months**
 - B. 48 months**
 - C. 60 months**
 - D. 72 months**
- 8. What must pilots do before they can takeoff if they suspect frost on their aircraft?**
- A. Ensure no frost on critical surfaces**
 - B. Wait for the sun to melt the frost**
 - C. Use heat to remove frost**
 - D. File a weather brief**
- 9. To verify that an aircraft's ELT is not transmitting before shutdown, what frequency should you listen on?**
- A. 123.4 MHz**
 - B. 121.5 MHz**
 - C. 119.0 MHz**
 - D. 127.8 MHz**
- 10. What does the abbreviation MIFG stand for?**
- A. Minor fog**
 - B. Medium obstruction of fog**
 - C. Shallow fog**
 - D. Maximum intensity fog**

Answers

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

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Explanations

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1. Which condition could prompt a pilot to issue a PIREP for turbulence?

- A. Visibility over 5 miles**
- B. Wind speeds below 10 knots**
- C. Surface winds less than 10 knots**
- D. Reporting significant turbulence during flight**

Issuing a PIREP (Pilot Report) for turbulence is important for ensuring the safety of flight operations. The correct answer involves reporting significant turbulence during flight. This action provides valuable information to other pilots and air traffic control about the conditions being experienced in the airspace. Significant turbulence can greatly affect the safety and comfort of flights, and timely reports can help warn others to expect similar conditions. When pilots encounter turbulence that is strong enough to be classified as significant, it is crucial for them to communicate this to enhance situational awareness and facilitate better decision-making for upcoming flights in that area. The other choices focus on visibility and wind speeds, which may be relevant for certain operational aspects but do not directly correlate with the pilot's experience of turbulence. Visibility over 5 miles and surface winds less than 10 knots do not indicate the presence of turbulence and therefore do not warrant a PIREP for that condition. Wind speeds below 10 knots may also suggest calm conditions that are less likely to be associated with significant turbulence. In contrast, the experience of turbulence is distinctly evident during flight, which is why that specific condition prompts a PIREP.

2. What are the principal properties of the atmosphere that contribute to weather phenomena?

- A. Temperature, pressure, and humidity**
- B. Expansion, compression, and mobility**
- C. Dewpoint, wind, and turbulence**
- D. Sunlight, moisture, and temperature**

The principal properties of the atmosphere that contribute to weather phenomena are temperature, pressure, and humidity. Each of these properties plays a crucial role in the formation and behavior of weather systems. Temperature affects air density and movement. Warm air rises, leading to the formation of low-pressure systems, while cooler air tends to sink, resulting in high-pressure systems. This creates the basic dynamics of wind and air movement that influence weather patterns. Pressure is fundamental in understanding how air moves within the atmosphere. High-pressure areas typically bring clear skies and fair weather, while low-pressure systems are associated with unsettled weather, including clouds and precipitation. The differences in pressure drive wind, which can transport weather systems across regions. Humidity is a measure of the amount of moisture in the air. It plays a critical role in cloud formation and precipitation. When air becomes saturated with moisture, clouds form, and if the conditions are right, rain or snow will occur. Additionally, humidity can significantly affect temperature perception and overall weather character. The other choices, while related to meteorology, do not comprehensively cover the fundamental atmospheric properties that specifically contribute to weather phenomena in the same way that temperature, pressure, and humidity do.

3. What is the minimum visibility required for an aeroplane to depart from an aerodrome within a control zone during special VFR?

- A. 1 mile**
- B. 2 miles**
- C. 3 miles**
- D. 5 miles**

For an aeroplane to depart from an aerodrome within a control zone under Special VFR (Visual Flight Rules), the minimum visibility required is indeed 1 mile. Special VFR allows pilots to operate in controlled airspace under certain conditions that are below the standard VFR weather minimums. This regulation is crucial for enhancing safety by ensuring that pilots maintain visual reference to the ground while still providing some flexibility for operations when weather conditions are less than ideal. In scenarios involving Special VFR, pilots must also receive clearance from air traffic control before departing. This clearance is essential as it ensures that ATC can provide the necessary instructions to maintain safe separation from other aircraft. Therefore, the 1 mile visibility requirement strikes a balance between allowing pilots the opportunity to operate in tighter weather conditions while still emphasizing the need for visibility, which is critical for visual navigation and avoiding obstacles. Overall, understanding these requirements helps pilots make informed decisions when operating in varying weather conditions and highlights the importance of adherence to regulations for safety in aviation.

4. What is the international emergency frequency for aviation communication?

- A. 121.5 MHz**
- B. 123.45 MHz**
- C. 119.0 MHz**
- D. 130.0 MHz**

The international emergency frequency for aviation communication is 121.5 MHz. This frequency is universally recognized and designated for distress and emergency situations in aviation. It is used for emergency calls by pilots, allowing them to communicate with air traffic control and other aircraft in the vicinity if they are in distress or experiencing difficulties. 121.5 MHz is monitored by air traffic control stations and can be accessed by all aircraft equipped for VHF communication. Additionally, it is utilized by various emergency locator beacons which transmit on this frequency in case of an accident, thus aiding search and rescue operations. The other frequencies listed, while they may serve specific communication purposes, are not designated for emergency use. For instance, 123.45 MHz is commonly used as a non-towered airport common traffic advisory frequency, while 119.0 MHz is typically assigned to certain air traffic control services, and 130.0 MHz may be used for specific operational communications but does not hold the international emergency designation.

5. Under day VFR in uncontrolled airspace at or above 1,000 feet AGL, what is the required visibility?

- A. 3 miles visibility with no cloud restrictions**
- B. 1 mile visibility with 1,000 feet vertically from clouds**
- C. 1 mile visibility with 500 feet vertically and 2,000 feet horizontally from clouds**
- D. 5 miles visibility with no cloud restrictions**

For day VFR (Visual Flight Rules) in uncontrolled airspace at or above 1,000 feet AGL (Above Ground Level), the requirements for visibility and cloud clearance are crucial for ensuring that pilots maintain safe separation from clouds and other aircraft. The correct answer specifies a visibility requirement of 1 mile, along with specific distances from clouds of 500 feet vertically and 2,000 feet horizontally. This regulation helps ensure that pilots can see and avoid clouds, which could obscure visibility and potentially create conflicts with other aircraft. Maintaining 1 mile of visibility allows the pilot enough sight distance to navigate safely, while the vertical and horizontal cloud clearance distances provide a buffer to avoid potential collisions and to ensure that the pilot has sufficient visual reference to the ground. The correct requirements reflect the established guidelines set forth by aviation authorities to promote safety in uncontrolled airspace. In contrast, the other provided options outline various visibility requirements and cloud clearance rules that do not align with the day VFR requirements for that specific altitude range, making them unsuitable under these circumstances.

6. An elongated area of low pressure on a weather map is referred to as what?

- A. Wave**
- B. Trough**
- C. Ridge**
- D. Front**

An elongated area of low pressure on a weather map is referred to as a trough. A trough represents a zone where the atmospheric pressure is lower than that of the surrounding areas, and it usually indicates a region of unsettled or stormy weather. Troughs can be associated with various weather patterns, including the development of low-pressure systems, which often lead to cloud formation and precipitation as they provide the necessary lift for air to rise and cool, resulting in condensation. Understanding the concept of a trough is key for pilots, as it can significantly influence flight conditions. When navigating, pilots must be aware of troughs because the associated weather patterns can affect visibility, turbulence, and wind direction. The other options refer to different meteorological concepts. For instance, a wave typically refers to a disturbance in the atmosphere that can affect wind patterns but does not specifically denote an area of low pressure like a trough does. A ridge denotes an area of high pressure, which brings clearer skies and more stable weather. A front represents the boundary between two different air masses and can also lead to weather changes, but is not specifically defined as an elongated area of low pressure.

7. How often must a private pilot under 40 years of age pass a medical examination to continue flying?

- A. 30 months**
- B. 48 months**
- C. 60 months**
- D. 72 months**

A private pilot under 40 years of age must pass a medical examination every 60 months, which is the interval set by Transport Canada for the validity of a category 3 medical certificate. This ensures that the pilot's health is regularly evaluated to confirm that they meet the necessary medical standards for safe flying. These standards assess aspects such as vision, hearing, and overall physical and mental health. The requirement for a medical examination at this interval is designed to maintain aviation safety by ensuring that pilots do not have any medical conditions that could impair their ability to operate an aircraft. Keeping pilots' certification current and ensuring they are in good health helps prevent potential in-flight issues that could arise from medical incapacitation. In contrast, pilots over the age of 40 have a more frequent requirement for medical examinations designed to account for the increased likelihood of health issues as one ages. Understanding these medical examination requirements is crucial for any pilot to maintain their flying privileges and ensure the safety of themselves and their passengers.

8. What must pilots do before they can takeoff if they suspect frost on their aircraft?

- A. Ensure no frost on critical surfaces**
- B. Wait for the sun to melt the frost**
- C. Use heat to remove frost**
- D. File a weather brief**

Ensuring that there is no frost on critical surfaces is essential before takeoff because frost can significantly impact an aircraft's aerodynamics and performance. Frost can disrupt the smooth airflow over wings and control surfaces, leading to increased stall speed, reduced lift, and difficulty in controlling the aircraft during takeoff and initial climb. Critical surfaces include areas like wings, tailplanes, and control surfaces where the smooth flow of air is crucial for optimal performance. While using heat to remove frost is a valid method and may be necessary depending on the situation, it does not guarantee that all frost has been completely removed from critical surfaces unless it is checked visually following the application of heat. Waiting for the sun to melt the frost can be unpredictable and may not sufficiently address frost that has formed on shaded parts of the aircraft. Filing a weather brief, although important for a thorough understanding of current conditions, does not directly address the immediate issue of frost on the aircraft. Therefore, checking that there is no frost on critical surfaces is the primary action required to ensure safety before flight.

9. To verify that an aircraft's ELT is not transmitting before shutdown, what frequency should you listen on?

- A. 123.4 MHz**
- B. 121.5 MHz**
- C. 119.0 MHz**
- D. 127.8 MHz**

Listening on 121.5 MHz is the correct choice because this frequency is designated as the international emergency frequency for general aviation distress and emergency communications. When an aircraft's Emergency Locator Transmitter (ELT) is activated, it transmits a distress signal on this frequency, allowing search and rescue services to locate an aircraft in distress. By listening on 121.5 MHz before shutdown, pilots can confirm that the ELT is not inadvertently activated and transmitting, which helps avoid unnecessary search and rescue operations or interference with emergency communications. It is a critical check to ensure that the aircraft is ready for flight without any issues related to the ELT.

10. What does the abbreviation MIFG stand for?

- A. Minor fog**
- B. Medium obstruction of fog**
- C. Shallow fog**
- D. Maximum intensity fog**

The abbreviation MIFG stands for "Shallow Fog," which refers to a specific meteorological condition characterized by a layer of fog that typically does not extend very high above the ground. This phenomenon is notable because it can affect visibility, especially in aviation operations, although it is less severe than more dense fog conditions. Understanding MIFG is crucial for pilots since shallow fog can lead to reduced visibility, making it important for flight planning and operations. The ability to recognize and interpret abbreviations like MIFG is a fundamental skill for pilots, playing a significant role in ensuring safety and situational awareness while flying. Familiarity with such terms helps in interpreting weather reports and forecasts, which are vital for making informed decisions about flying conditions.