

Private Pilot License (PPL) Flight Test Ground Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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Questions

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- 1. What is the difference between airtime and flight time?**
 - A. Airtime is from wheels up to wheels down**
 - B. Flight time is from the start of the taxi to landing**
 - C. Airtime includes taxi time**
 - D. Flight time is when the wheels are in motion**
- 2. If the static port becomes blocked, how will the altimeter respond?**
 - A. Will remain unchanged**
 - B. Will read incorrectly**
 - C. Will show zero altitude**
 - D. Will freeze at a specific altitude**
- 3. What is the Vfe for 0-10° flaps on the test aircraft?**
 - A. 85**
 - B. 110**
 - C. 129**
 - D. 163**
- 4. Do VFR flights require permission to operate in Class E airspace?**
 - A. Yes, always**
 - B. Only during specific times**
 - C. No, they do not need permission**
 - D. Only if flying above 10,000 feet**
- 5. What does Va represent in aircraft specifications?**
 - A. Aerodynamic stall speed**
 - B. Maximum landing speed**
 - C. Design maneuvering speed**
 - D. Initial climb speed**

- 6. If an engine fire starts but the engine fails to start, what should you do regarding the auxiliary fuel pump?**
- A. Turn it on**
 - B. Leave it on**
 - C. Turn it off**
 - D. Activate it**
- 7. How do you obtain a DF steer?**
- A. Request verbally to ATC**
 - B. Check VFR navigation charts**
 - C. Consult the CFS**
 - D. Call the nearest airport**
- 8. Are aircraft inspections based on airtime or flight time?**
- A. Flight time**
 - B. Airtime**
 - C. Distance traveled**
 - D. Type of operation**
- 9. What is the general guideline for the relationship between weight and arm in determining moment?**
- A. The arm should always be equal to the weight**
 - B. Weight and arm are inversely proportional**
 - C. The moment can be calculated as the product of weight and arm**
 - D. The moment is calculated as weight divided by arm**
- 10. What is the function of the VNC charts in aviation?**
- A. They depict terrain for visual navigation**
 - B. They are used for IFR navigation**
 - C. They provide detailed airport information**
 - D. They indicate airspace restrictions**

Answers

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

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Explanations

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1. What is the difference between airtime and flight time?

- A. Airtime is from wheels up to wheels down**
- B. Flight time is from the start of the taxi to landing**
- C. Airtime includes taxi time**
- D. Flight time is when the wheels are in motion**

Airtime is defined specifically as the period the aircraft is in the air from the moment it leaves the ground until it touches down again. This means that it focuses solely on the time the aircraft is flying in the airspace. In contrast, flight time generally encompasses more than just airtime. It includes the entire duration from when the aircraft begins its taxi to when it comes to a complete stop after landing. This broader definition is significant for flight logging and regulatory purposes, as it accounts for all the operations involved in a flight, including taxiing. Understanding this distinction is crucial for pilots as they manage their flight logs, adhere to regulations, and assess their flying experiences. The critical difference lies in the specific phases of operation being measured: airtime strictly covers airborne time, while flight time includes both ground and airborne phases of a flight.

2. If the static port becomes blocked, how will the altimeter respond?

- A. Will remain unchanged**
- B. Will read incorrectly**
- C. Will show zero altitude**
- D. Will freeze at a specific altitude**

When the static port becomes blocked, the altimeter will "freeze" at the altitude at which the blockage occurs. This happens because the altimeter relies on atmospheric pressure readings from the static port to determine altitude. If the static port is blocked, the altimeter cannot sense changes in outside air pressure. As the aircraft climbs or descends, the pressure outside changes, but the altimeter will not adjust to reflect these changes since it is still relying on the stale data from the blocked static port. Consequently, the altimeter will display a constant reading, effectively freezing at the altitude where the blockage occurred. This response can pose serious risks during flight, as it could lead to altitude misjudgment and potentially hazardous situations. In contrast to other options, the altimeter does not simply remain unchanged in all scenarios or show an incorrect reading in a varying manner; rather, it becomes static. It does not display zero altitude unless the aircraft is indeed at sea level upon the blockage, which generally isn't the case in flight situations. It may also read incorrectly, but the key characteristic of a blocked static port is that it "freezes" as opposed to giving variable readings.

3. What is the Vfe for 0-10° flaps on the test aircraft?

- A. 85
- B. 110**
- C. 129
- D. 163

The Vfe, or maximum flap extended speed, is a critical airspeed that pilots need to understand when operating an aircraft with flaps deployed. For the test aircraft, the Vfe for 0-10° flaps is listed as 110 knots. This means that when the flaps are extended to the specified range, the aircraft should not exceed this speed to ensure safe handling and performance characteristics. Understanding Vfe is essential for safe flight operations, especially during landing approaches when pilots frequently use flaps to increase lift at slower speeds. Exceeding the Vfe can potentially lead to control issues or aerodynamic problems, as the airfoil is not designed to handle higher speeds with the flaps deployed in this configuration. The other choices reflect flap settings or configurations that are not appropriate for the 0-10° flap range, as each would correspond to different aircraft specifications or operational parameters. Not all aircraft have the same Vfe values for flap ranges, which is why consulting the specific aircraft's Pilot Operating Handbook (POH) is necessary. This highlights the importance of knowing the aircraft's performance specifications to fly safely and effectively.

4. Do VFR flights require permission to operate in Class E airspace?

- A. Yes, always
- B. Only during specific times
- C. No, they do not need permission**
- D. Only if flying above 10,000 feet

VFR, or Visual Flight Rules, flights do not require specific permission to operate in Class E airspace. Class E airspace is generally designated for controlled airspace that isn't designated as Class A, B, C, or D, and is primarily used for instrument flight rules (IFR) operations, although VFR flights can freely operate within it. Under VFR, pilots are responsible for their own navigation and separation from other traffic, and operations in Class E can occur without clearance, provided the pilot follows the established VFR visibility and cloud clearance requirements. This flexibility allows pilots to take advantage of the available airspace without needing to receive explicit permission from ATC, except in certain scenarios where transitions through controlled airspace may intersect with Class E zones. The other options imply conditions under which VFR flights would need permission, which does not align with how Class E airspace operates. In essence, understanding the nature of Class E airspace allows pilots to navigate in a manner that enhances safe and efficient flight operations without the need for additional authorizations.

5. What does Va represent in aircraft specifications?

- A. Aerodynamic stall speed**
- B. Maximum landing speed**
- C. Design maneuvering speed**
- D. Initial climb speed**

Va represents the design maneuvering speed of an aircraft. This speed is critical because it indicates the maximum speed at which the pilot can safely initiate aggressive control inputs without risking structural damage to the aircraft. Above this speed, the aircraft may experience adverse aerodynamic effects, such as increased control surface effectiveness and a higher likelihood of exceeding structural limits with abrupt maneuvers. In practical terms, flying at or below Va allows the pilot to protect the aircraft's structure during turbulent conditions or during sudden changes in flight path while ensuring that the aircraft remains controllable. It is an important parameter for safety during operations, particularly in scenarios such as steep turns or during recovery from unusual attitudes. Understanding Va helps pilots make informed decisions regarding aircraft handling during various flight conditions, ensuring both safety and performance are maintained.

6. If an engine fire starts but the engine fails to start, what should you do regarding the auxiliary fuel pump?

- A. Turn it on**
- B. Leave it on**
- C. Turn it off**
- D. Activate it**

When an engine fire occurs, especially during the starting phase, the primary concern is to mitigate the fire and protect the aircraft and its occupants. In such a situation, turning off the auxiliary fuel pump is crucial because the purpose of this system is to provide fuel to the engine. If the engine is not starting but there is a fire, continuing to provide fuel can exacerbate the situation, potentially allowing the fire to grow or creating an even greater hazard. By turning off the auxiliary fuel pump, you stop the flow of fuel to the engine, reducing the available fuel for combustion and helping to extinguish the fire or prevent it from worsening. This action is a standard safety procedure during an engine fire and is essential to ensuring that the fire does not have the fuel source it requires to continue burning. It is a key part of emergency protocol in aviation safety, highlighting the importance of managing all systems onboard the aircraft judiciously in the face of a critical failure.

7. How do you obtain a DF steer?

- A. Request verbally to ATC
- B. Check VFR navigation charts
- C. Consult the CFS**
- D. Call the nearest airport

Obtaining a Direction Finder (DF) steer involves consulting the Canada Flight Supplement (CFS), as it provides critical information for pilots regarding navigation aids and procedures. The CFS contains details such as the location of navigational aids, their frequencies, and operational statuses, which help pilots effectively navigate and request DF services. Using the CFS ensures that pilots access the most accurate and current information about the available DF facilities, which can be vital for navigating under instrument flight rules or when operating in limited visibility. This helps in making informed decisions about routing and safety, ensuring that pilots can communicate their needs effectively to air traffic control or make navigational adjustments accordingly. The other options may not directly provide the necessary procedural information regarding obtaining a DF steer. For example, while verbally requesting to ATC might seem feasible, it is typically essential to know which facilities are available and their operational status, which is found in the CFS. Similarly, checking VFR navigation charts might help in some navigational aspects, but they do not specifically focus on DF service availability. Calling the nearest airport could yield some information, but it lacks the comprehensive details provided in the CFS that a pilot may require.

8. Are aircraft inspections based on airtime or flight time?

- A. Flight time
- B. Airtime**
- C. Distance traveled
- D. Type of operation

Inspections for aircraft are primarily based on airtime, which refers to the time the aircraft is in flight with the wheels off the ground. This method of tracking is essential because it relates directly to the wear and tear experienced by various components of the aircraft during flight. Maintaining the aircraft's airworthiness is paramount, and the impacts of flight, such as mechanical stress and operational conditions, are most accurately reflected in the airtime accrued. Flight time, while a common term used, typically encompasses the entire duration from when the aircraft begins the takeoff roll until it comes to a stop after landing, including ground maneuvering. However, regulations and maintenance schedules focus explicitly on airtime since it better correlates with the aircraft's actual operational state during flight. While other considerations such as distance traveled and type of operation do play roles in certain maintenance schedules and inspections, they are not the primary metrics used for regular aircraft inspections. Consequently, understanding that inspections are based on airtime emphasizes the significance of the in-flight operational aspects of aircraft maintenance and safety.

9. What is the general guideline for the relationship between weight and arm in determining moment?

- A. The arm should always be equal to the weight**
- B. Weight and arm are inversely proportional**
- C. The moment can be calculated as the product of weight and arm**
- D. The moment is calculated as weight divided by arm**

The relationship between weight and arm in determining moment is expressed by the formula that defines moment as the product of weight and arm. In aviation, the term "moment" refers to the rotational effect produced by a weight acting at a specified distance from a reference point (usually the aircraft's center of gravity). This is mathematically expressed as: $\text{Moment} = \text{Weight} \times \text{Arm}$. In this context, "weight" represents the force due to gravity acting on an object, while "arm" refers to the horizontal distance from the center of gravity or reference point to where the weight is applied. This formula is essential for aircraft weight and balance calculations because it helps determine the overall stability and performance of the aircraft during flight. By understanding this relationship, pilots can make informed decisions regarding load distribution and ensure that the aircraft remains within safe operating limits. This makes option C the correct choice as it accurately reflects the fundamental principle behind calculating moments in aviation.

10. What is the function of the VNC charts in aviation?

- A. They depict terrain for visual navigation**
- B. They are used for IFR navigation**
- C. They provide detailed airport information**
- D. They indicate airspace restrictions**

VNC charts, or Visual Navigation Charts, are designed specifically for visual navigation in general aviation. Their primary function is to provide pilots with terrain information, which is crucial for maintaining situational awareness and safe flight at low altitudes. VNC charts display a variety of features, including topography, prominent landmarks, and navigational aids, which assist pilots in navigating visually and avoiding obstacles, especially in mountainous or complex terrain. In contrast, IFR navigation relies on different types of charts, such as en route charts and approach plates, which contain specific information necessary for instrument flying. Detailed airport information is typically found on airport diagrams or in sectional charts rather than VNC charts. While airspace restrictions are depicted on various aviation charts, VNC charts primarily emphasize visual navigation and help pilots understand the terrain features in their flying area.