

Instrument Flight Rules (IFR) Checkride Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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SAMPLE

Questions

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- 1. What is the required cross-country distance for Instrument Rating?**
 - A. 150 nautical miles**
 - B. 250 nautical miles**
 - C. 350 nautical miles**
 - D. 450 nautical miles**
- 2. How long before and after sunset must a PIC have performed 3 takeoffs and landings to be current at night?**
 - A. 1 hour before and 1 hour after**
 - B. 30 minutes before and 30 minutes after**
 - C. 2 hours before and 2 hours after**
 - D. Only during the hours of darkness**
- 3. What should pilots do when the ALS is INOP?**
 - A. Continue approach visually**
 - B. Refer to the TPP**
 - C. Execute a missed approach**
 - D. Communicate with ATC**
- 4. What is the typical approach for passing thunderstorms during flight?**
 - A. Flying directly over the storm**
 - B. Diverting far behind the storm**
 - C. Passing at a safe distance to avoid downdrafts**
 - D. Flying to the thunderstorms' front side for a quicker route**
- 5. Which of the following denotes a hazardous condition for smaller aircraft under Airmets?**
 - A. Severe Icing**
 - B. Turbulence**
 - C. Dust Storms**
 - D. Volcanic Ash**

- 6. What type of report is issued if there is a significant change in weather conditions?**
- A. SPECI**
 - B. AIRMET**
 - C. SIGMET**
 - D. PIREP**
- 7. What type of icing does "clear ice" refer to?**
- A. Thin layers of frost on wings**
 - B. Solid chunks of ice accumulated**
 - C. Transparent, high density ice**
 - D. Water droplets that freeze upon contact**
- 8. What does MDA stand for in the context of non-precision approaches?**
- A. Minimum Dangerous Altitude**
 - B. Minimum Decent Altitude**
 - C. Maximum Descent Altitude**
 - D. Minimum Designated Altitude**
- 9. What is the VOR service volume for high altitude use from 14,500 to 60,000 feet?**
- A. 40 nautical miles**
 - B. 100 nautical miles**
 - C. 130 nautical miles**
 - D. 150 nautical miles**
- 10. What is the holding speed for altitudes from 0 to 6000 feet?**
- A. 200 knots**
 - B. 230 knots**
 - C. 265 knots**
 - D. 180 knots**

Answers

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

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Explanations

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1. What is the required cross-country distance for Instrument Rating?

- A. 150 nautical miles
- B. 250 nautical miles**
- C. 350 nautical miles
- D. 450 nautical miles

To obtain an Instrument Rating, a pilot must complete a cross-country flight of at least 250 nautical miles. This requirement ensures that the pilot has experience navigating over longer distances while utilizing instrument flight rules, enhancing their proficiency in handling navigation, communications, and weather considerations outside of their immediate area. This distance criterion helps ensure that pilots are capable of managing the complexities associated with extended flights in instrument conditions, ultimately contributing to safer and more skilled piloting in challenging weather environments.

2. How long before and after sunset must a PIC have performed 3 takeoffs and landings to be current at night?

- A. 1 hour before and 1 hour after**
- B. 30 minutes before and 30 minutes after
- C. 2 hours before and 2 hours after
- D. Only during the hours of darkness

The requirement for a pilot in command (PIC) to perform three takeoffs and landings to be considered current for night flying is specifically addressed in the regulations. According to 14 CFR 61.57, in order to carry passengers at night, a pilot must have completed these takeoffs and landings within the preceding 90 days. The correct answer about the timing is that a pilot must perform these takeoffs and landings within one hour before and one hour after sunset. This timeframe ensures that a pilot is prepared to operate at night, when visibility is reduced, and familiarizes them with the specific conditions they will encounter shortly after sunset and before dawn. The rationale behind requiring a performance window that encompasses one hour before and after sunset is to ensure that a pilot gains adequate experience in actual nighttime conditions. It supports the idea that night operations can be significantly different from day operations due to factors like limited visibility, different environmental conditions, and altered perceptions of distances and heights. This regulation promotes safety by encouraging pilots to practice during periods that closely simulate potential operational conditions they will face, thereby maintaining their proficiency and ability to operate under the unique challenges presented during nighttime flight.

3. What should pilots do when the ALS is INOP?

- A. Continue approach visually
- B. Refer to the TPP**
- C. Execute a missed approach
- D. Communicate with ATC

When the Approach Lighting System (ALS) is inoperative, pilots should refer to the Terminal Procedures Publication (TPP) to determine the appropriate procedures for the approach they are conducting. The TPP provides essential information regarding alternate minima, approach notes, and specific guidance that may be necessary when certain airport equipment, such as the ALS, is not functioning. It can specify alternate visual references or other cues that may be relied upon for descent and landing in the absence of standard lighting aids. Understanding how to navigate the TPP helps ensure that pilots maintain safety and situational awareness while accommodating for the lack of certain navigational aids. This is critical in IFR operations, where adherence to published procedures is paramount for safe and effective flight operations.

4. What is the typical approach for passing thunderstorms during flight?

- A. Flying directly over the storm
- B. Diverting far behind the storm
- C. Passing at a safe distance to avoid downdrafts**
- D. Flying to the thunderstorms' front side for a quicker route

Passing at a safe distance to avoid downdrafts is essential when navigating around thunderstorms during flight. Thunderstorms are known for producing severe turbulence, including downdrafts and updrafts, which can be dangerous for an aircraft. Maintaining a safe distance allows pilots to minimize the risk of encountering these hazardous conditions. When passing thunderstorms, it's critical to understand that the weather can change rapidly and that even distant storms can produce significant turbulence or wind shear effects. By adhering to this approach, pilots can avoid the unsafe turbulence associated with the vertical movements of air surrounding the storm, ensuring a safer flight path. Moreover, choosing to pass at a safe distance aligns with FAA guidelines and best practices for avoiding severe weather, which emphasize steering clear of thunderstorms whenever possible. This level of caution is vital for ensuring the safety of both the aircraft and its occupants.

5. Which of the following denotes a hazardous condition for smaller aircraft under Airmets?

- A. Severe Icing**
- B. Turbulence**
- C. Dust Storms**
- D. Volcanic Ash**

The correct answer is turbulence, as it specifically denotes a hazardous condition for smaller aircraft under Airmets. Airmets are issued to warn pilots of potentially hazardous weather conditions that may affect the safety of flight, particularly for smaller, less robust aircraft. Turbulence is a significant concern because it can lead to difficult handling characteristics and may cause stress on lighter airframes, making it crucial for pilots to be aware of wind patterns and atmospheric conditions that could lead to turbulence. Airmets for turbulence typically highlight the anticipated strength and extent of turbulent conditions, allowing pilots to make informed decisions about their routes and altitude choices. Severe icing, dust storms, and volcanic ash are also serious hazards, but Airmets focus specifically on conditions that predominantly affect the performance and handling of smaller or general aviation aircraft. In contrast, severe icing often falls under a different advisory (SIGMET) due to its extreme nature, and dust storms, while hazardous, are less common and might not specifically target smaller aircraft in the same way that turbulence does. Volcanic ash is also typically covered under SIGMETs due to its high risk to all types of aircraft.

6. What type of report is issued if there is a significant change in weather conditions?

- A. SPECI**
- B. AIRMET**
- C. SIGMET**
- D. PIREP**

A SPECI, which stands for "Special Weather Report," is issued to convey significant changes in weather conditions that occur between regularly scheduled METAR reports. These changes may include alterations in visibility, clouds, or hazardous conditions that could affect flight operations. The issuance of a SPECI helps pilots and air traffic controllers stay informed of current weather conditions that may impact safety during flight. In contrast, AIRMETs and SIGMETs are meant for broader weather phenomena affecting multiple flight operations over larger areas; an AIRMET addresses less severe conditions, while a SIGMET is issued for more significant weather events such as severe turbulence or thunderstorms. PIREPs are pilot reports that provide real-time observations from the cockpit but do not serve as official weather reports like the SPECI does.

7. What type of icing does "clear ice" refer to?

- A. Thin layers of frost on wings**
- B. Solid chunks of ice accumulated**
- C. Transparent, high density ice**
- D. Water droplets that freeze upon contact**

Clear ice refers to a specific type of ice accumulation that forms when supercooled water droplets freeze upon contact with a surface, typically an aircraft's wings or control surfaces, leading to a smooth, transparent layer of ice. This type of icing is characterized by its high density and weight, which can significantly affect an aircraft's aerodynamic performance. The presence of clear ice can cause issues such as increased drag and altered stall characteristics, making it dangerous for flight operations. The other options describe different forms of ice or icing phenomena: thin layers of frost tend to occur in warmer conditions and do not significantly impact performance as clear ice does. Solid chunks of ice commonly refer to larger accumulations, which are more associated with severe icing conditions and can detach, leading to ice that is less uniform than clear ice. Water droplets freezing upon contact is a basic description of the process contributing to clear ice but does not capture the full implications of its density and impact on aircraft performance.

8. What does MDA stand for in the context of non-precision approaches?

- A. Minimum Dangerous Altitude**
- B. Minimum Decent Altitude**
- C. Maximum Descent Altitude**
- D. Minimum Designated Altitude**

In the context of non-precision approaches, MDA stands for Minimum Descent Altitude. This is an essential altitude in the approach procedure that pilots must be aware of when conducting an approach that does not have precision guidance, such as an instrument landing system (ILS). The MDA is the lowest altitude to which a pilot may descend in the approach without having the required visual references to continue the approach and land. The importance of MDA lies in ensuring safety and preventing controlled flight into terrain (CFIT) situations. Pilots must maintain this altitude when visual references are not available until they reach the point where they can either continue the approach with visual references or execute a missed approach if they are not able to see the runway environment. Understanding MDA is crucial for pilots flying in IFR conditions, particularly during non-precision approaches, where the margin for error is smaller than during precision approaches.

9. What is the VOR service volume for high altitude use from 14,500 to 60,000 feet?

- A. 40 nautical miles**
- B. 100 nautical miles**
- C. 130 nautical miles**
- D. 150 nautical miles**

The VOR (VHF Omnidirectional Range) service volume determines the effective range and altitude at which navigational signals are usable. For high altitude VOR usage, the service volume extends significantly compared to lower altitudes. When considering high altitude VOR service volumes from 14,500 feet up to 60,000 feet, it is established that the usable range extends to 130 nautical miles from the VOR station. This range allows for effective navigation and signal reception by aircraft flying at those altitudes, facilitating safe and accurate route navigation in the IFR environment. In contrast, VOR service volumes at lower altitudes, like those under 14,500 feet, are 40 nautical miles or 100 nautical miles, which reflects the different requirements and operational needs for aircraft operating at varying altitudes. Understanding these service volumes is crucial for pilots in ensuring they remain within the coverage area of the VOR signals when navigating.

10. What is the holding speed for altitudes from 0 to 6000 feet?

- A. 200 knots**
- B. 230 knots**
- C. 265 knots**
- D. 180 knots**

The holding speed for altitudes from 0 to 6,000 feet is 200 knots. This standard is established to ensure that aircraft maintain an appropriate speed while in holding patterns, which helps keep them safely separated from other air traffic and allows for efficient management of airspace. In the context of holding procedures, it's important to recognize that standard speed limits are set to decrease the strain on pilots and increase safety in congested airspace. For the altitude range of 0 to 6,000 feet, the FAA specifies a maximum holding speed of 200 knots, making it crucial for pilots to adhere to this restriction when operating in that altitude band. This practice supports controlled maneuvering of aircraft as they await further instructions from air traffic control. Understanding these speed limits is essential for IFR operations, particularly during checkrides, where knowledge of the rules governing holding procedures is evaluated.