

T-6A Mission Ground Evaluation Practice Test (Sample)

Study Guide



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SAMPLE

Questions

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- 1. What actions are recommended if traffic information is provided during a Traffic Advisory?**
 - A. Refrain from any maneuver**
 - B. Immediately deviate from current instructions**
 - C. Continue following ATC instructions**
 - D. Inform the control tower of intentions**
- 2. If given a climb gradient conversion, can you perform the action required?**
 - A. Yes, as per regulations**
 - B. No, it's not necessary**
 - C. Only under special circumstances**
 - D. Not without prior approval**
- 3. In aviation terminology, what does "SM" commonly refer to?**
 - A. Safe Maneuvering**
 - B. Standard Motion**
 - C. Statute Mile**
 - D. Speed Maintenance**
- 4. When are Non-Standard IFR Takeoff Minimums provided?**
 - A. When weather conditions are ideal**
 - B. When obstacles penetrate the OIS**
 - C. When the runway is longer than usual**
 - D. When performing visual flights**
- 5. What does a Visual Climb Over Airport (VCOA) allow an IFR aircraft to do?**
 - A. Ascend straight to the cruising altitude**
 - B. Conduct visual climbing turns over the airfield**
 - C. Land without radar guidance**
 - D. Depart without regard to visibility**

- 6. What disqualifies an airport from being used as an alternate?**
- A. Forecasted weather includes rain showers**
 - B. More than one compatible approach available**
 - C. All approaches require monitored NAVAIDs**
 - D. Scheduled commercial flights at the airport**
- 7. If you are not using supplemental oxygen what are the restrictions for above 14,000' MSL?**
- A. No operation**
 - B. Limited to 30 minutes**
 - C. Flight is allowed with conditions**
 - D. Only training flights allowed**
- 8. What does ICAO use as a basis for holding time?**
- A. Inbound leg**
 - B. Outbound leg**
 - C. Altitude**
 - D. Aircraft weight**
- 9. What is the minimum weather to commence an approach?**
- A. The visibility must be greater than 3 miles**
 - B. Existing ceiling and visibility must meet approach requirements**
 - C. Clear skies are required to commence an approach**
 - D. Weather must be at least VFR for any approach**
- 10. Which of the following is NOT a type of departure method?**
- A. Diverse Vector Area**
 - B. Consistent Departure Plan**
 - C. Standard Instrument Departure**
 - D. Diverse Departure**

Answers

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

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Explanations

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1. What actions are recommended if traffic information is provided during a Traffic Advisory?

- A. Refrain from any maneuver**
- B. Immediately deviate from current instructions**
- C. Continue following ATC instructions**
- D. Inform the control tower of intentions**

When traffic information is provided during a Traffic Advisory, the recommended action is to continue following ATC instructions. This is because ATC offers advisories to enhance situational awareness but does not expect pilots to take immediate action solely based on that advisory. The responsibility remains with the pilot to ensure safe operation while complying with any existing air traffic control instructions. Continuing to follow ATC instructions allows for a coordinated approach to traffic management, reducing the risk of conflicts. It is essential for pilots to maintain their current course and altitude unless ATC directs otherwise. This helps ensure that all aircraft in the vicinity operate safely and efficiently, as taking abrupt actions without ATC coordination could lead to confusion or unsafe situations. Maintaining situational awareness and following ATC guidance is crucial for safe operations, especially in busy airspace. Thus, the focus should be on adherence to instructions provided by air traffic control rather than reacting immediately to traffic advisories alone.

2. If given a climb gradient conversion, can you perform the action required?

- A. Yes, as per regulations**
- B. No, it's not necessary**
- C. Only under special circumstances**
- D. Not without prior approval**

The correct answer indicates that the regulations do allow for the action required when provided with a climb gradient conversion. Climb gradients are critical for understanding aircraft performance, particularly during takeoff and landing phases in relation to terrain and obstacles. When regulations state that you can perform actions based on climb gradient conversions, it means that pilots are trained to interpret these gradients effectively to ensure safety and compliance during flight operations. Utilizing climb gradient conversions appropriately ensures that the aircraft maintains adequate performance in various phases of flight and adheres to safety protocols. This choice also reflects an understanding of compliance with regulatory requirements, which are designed to enhance safe operational practices.

3. In aviation terminology, what does "SM" commonly refer to?

- A. Safe Maneuvering**
- B. Standard Motion**
- C. Statute Mile**
- D. Speed Maintenance**

In aviation terminology, "SM" commonly refers to Statute Mile. This unit of measurement is crucial for understanding distances, especially in the context of flight operations and navigation. A statute mile is equal to 5,280 feet and is commonly used in aviation to denote visibility and distance, particularly when pilots are communicating weather conditions or when air traffic control is providing information regarding distances from landmarks or runways. Understanding this term helps pilots make informed decisions regarding safety, navigation, and compliance with flight regulations, which often stipulate visibility requirements in statute miles. This measurability is essential for pilots to ensure that they can see and avoid other aircraft or obstacles during flight, especially during takeoff and landing phases.

4. When are Non-Standard IFR Takeoff Minimums provided?

- A. When weather conditions are ideal**
- B. When obstacles penetrate the OIS**
- C. When the runway is longer than usual**
- D. When performing visual flights**

Non-Standard IFR Takeoff Minimums are provided specifically when there are obstacles that penetrate the Obstacle Identification Surface (OIS). The OIS defines a protected area around the runway to ensure that aircraft can safely take off and climb away without encountering obstacles in their flight path. When these obstacles intrude upon this surface, it indicates that the standard IFR takeoff minimums may not provide sufficient safety for the operation due to potential interference from these obstacles. Therefore, non-standard minimums are established to ensure pilots have a clear understanding of the required visibility and distance needed to ensure a safe takeoff. Understanding this concept is crucial for flight safety, as it emphasizes the importance of evaluating the specific conditions surrounding a runway before departure. In contrast, ideal weather conditions, longer runways, and visual flights do not inherently relate to the need for non-standard IFR takeoff minimums, making them irrelevant in this context.

5. What does a Visual Climb Over Airport (VCOA) allow an IFR aircraft to do?

- A. Ascend straight to the cruising altitude**
- B. Conduct visual climbing turns over the airfield**
- C. Land without radar guidance**
- D. Depart without regard to visibility**

A Visual Climb Over Airport (VCOA) is a procedure designed for IFR (Instrument Flight Rules) aircraft that permits pilots to maintain visual reference during their climb out from an airport. The key component of this procedure is that it allows the aircraft to conduct visual climbing turns over the airfield. By utilizing a VCOA, pilots are able to ascend while remaining visually oriented, which is particularly beneficial in situations where there might be traffic in the vicinity or other obstacles that the pilot must remain aware of during the climb. This procedure can enhance situational awareness and safety by enabling pilots to see and avoid other aircraft and obstacles. Furthermore, the VCOA typically requires pilots to maintain visual reference with the ground which allows for maneuverability that is not available under traditional IFR departure procedures. Essentially, it provides a structured yet flexible means of transitioning from the airport environment into a climb while managing safety and visibility.

6. What disqualifies an airport from being used as an alternate?

- A. Forecasted weather includes rain showers**
- B. More than one compatible approach available**
- C. All approaches require monitored NAVAIDs**
- D. Scheduled commercial flights at the airport**

An airport is disqualified from being used as an alternate if the forecasted weather includes conditions that do not meet the minimum requirements for alternate airports. Specifically, if the weather forecast indicates that the visibility or cloud cover is below the required minima for an alternate airport, it cannot be classified as suitable for use. In this case, the presence of rain showers in the forecast could lead to reduced visibility and potentially low ceilings, which might not meet the established criteria for alternate airport status. Therefore, the forecast of adverse weather is a key factor in determining the usability of an airport as an alternate. The other options do not inherently disqualify an airport. Having multiple compatible approaches might actually enhance the airport's usability as an alternate, while requiring monitored NAVAIDs indicates the need for specific navigational aids but does not rule it out. Scheduled commercial flights may suggest operational capacity but do not directly affect the alternate status based on weather criteria.

7. If you are not using supplemental oxygen what are the restrictions for above 14,000' MSL?

- A. No operation**
- B. Limited to 30 minutes**
- C. Flight is allowed with conditions**
- D. Only training flights allowed**

At altitudes above 14,000 feet Mean Sea Level (MSL), physiological effects on pilots become significantly more pronounced due to decreased atmospheric pressure and reduced oxygen availability. Consequently, regulations dictate that if a pilot is not using supplemental oxygen, they cannot operate an aircraft at such elevations. This restriction is in place to mitigate the risk of hypoxia, which can impair cognitive and physical performance, leading to dangerous flight situations. The lack of oxygen can result in disorientation, loss of consciousness, and other critical issues impacting flight safety. Therefore, the regulation clearly prohibits any flight operation above this altitude without supplemental oxygen, making the first choice the only viable option for safe and responsible flying practices.

8. What does ICAO use as a basis for holding time?

- A. Inbound leg**
- B. Outbound leg**
- C. Altitude**
- D. Aircraft weight**

The correct choice is based on the International Civil Aviation Organization's (ICAO) standards for determining holding patterns and times. ICAO specifies that holding times are calculated primarily using the outbound leg of the hold. This is significant because the outbound leg duration is used to ensure that aircraft maintain safe separation and adhere to prescribed flight procedures while circling within the holding pattern. The outbound leg's time estimation considers the standard speed of the aircraft and the distance traveled during this segment. This practice ensures uniformity across various aircraft types and operational scenarios and helps in managing air traffic effectively. Understanding this principle is crucial for pilots and air traffic controllers as it influences the way they manage airspace around gateways and during approach phases, as well as how they communicate and coordinate between each other to maintain safety and efficiency in flight operations.

9. What is the minimum weather to commence an approach?

- A. The visibility must be greater than 3 miles**
- B. Existing ceiling and visibility must meet approach requirements**
- C. Clear skies are required to commence an approach**
- D. Weather must be at least VFR for any approach**

The minimum weather to commence an approach requires that the existing ceiling and visibility must meet the specific approach requirements outlined in the regulations or the approach procedure. This means that pilots need to ensure that both the vertical visibility (ceiling) and horizontal visibility standards for the specific approach they are intending to fly are satisfied before initiating the approach. This approach ensures that pilots have adequate visual references for landing and can safely navigate to the runway. Each type of approach could have different minimum requirements depending on various conditions, making compliance with these specific criteria essential for safe operations. In contrast, other options present either overly restrictive or vague requirements that do not fully address the operational standards necessary for initiating an approach. For instance, stating that visibility must be greater than 3 miles does not account for situation-specific criteria that might allow for a more nuanced approach under certain circumstances. Similarly, claiming that clear skies are required disregards low visibility approaches that are designed for specific weather conditions. The statement about needing VFR weather for any approach is inaccurate since some approaches can be executed under IFR conditions as long as the ceiling and visibility criteria are satisfied, which aligns with meeting the appropriate approach requirements.

10. Which of the following is NOT a type of departure method?

- A. Diverse Vector Area**
- B. Consistent Departure Plan**
- C. Standard Instrument Departure**
- D. Diverse Departure**

A consistent departure plan is not recognized as a standard type of departure method. Departure methods are specific procedures used in aviation to ensure safe and efficient aircraft departures from runways, especially in terminal airspace. Each of the other listed options represents established practices used in aviation. A Diverse Vector Area allows air traffic control to provide diverse vectors to aircraft, enabling them to navigate safely and efficiently after takeoff. Standard Instrument Departures (SIDs) are pre-defined routes that streamline departures from an airport, providing standardized navigation instructions. A Diverse Departure is a similar concept, focusing on creating flexibility in the paths that aircraft can take to exit an airspace while maintaining safety and efficiency. In contrast, a consistent departure plan does not align with recognized departure methods and does not have established protocols or standardization in aviation practice. Understanding the definitions and applications of departure types is essential for safe flight operations, making it clear why this option does not fit into the established categories.