

CFII Practical Test Standards (PTS) Practice Test (Sample)

Study Guide



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Questions

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- 1. Which weather phenomenon is most likely to produce severe icing?**
 - A. Light rain showers**
 - B. Thunderstorms**
 - C. Clear skies**
 - D. Overcast conditions**
- 2. The frequency of self-assessments by a CFII can primarily contribute to what aspect?**
 - A. Compliance with regulatory authorities**
 - B. Improvement in instructional techniques**
 - C. Cumulative flight hour requirements**
 - D. Scheduling efficiency**
- 3. In what ways can a CFII evaluate the effectiveness of their instructional methods?**
 - A. Through lesson plans alone.**
 - B. By checking student performance assessments and collecting feedback.**
 - C. By avoiding student evaluations.**
 - D. Through discussions with colleagues exclusively.**
- 4. When conducting pre-flight briefings, what should be prioritized?**
 - A. Only logistical concerns**
 - B. Clear expectations and safety information**
 - C. Informal conversation**
 - D. Visual aids**
- 5. For how long is a typical AIRMET valid?**
 - A. 1 hour**
 - B. 3 hours**
 - C. 6 hours**
 - D. 12 hours**

- 6. What type of electrical system does the C172N use?**
- A. 12 Volt AC system**
 - B. 28 Volt DC system**
 - C. 24 Volt DC system**
 - D. 14 Volt DC system**
- 7. What formula is used to determine a standard rate turn?**
- A. TAS - 10 + half**
 - B. TAS/10 + half of that**
 - C. TAS x 2 + 5**
 - D. TAS - 5 + quarter**
- 8. What role does self-evaluation play in a CFII's ongoing professional development?**
- A. It hinders growth and learning**
 - B. It is unnecessary after initial training**
 - C. It promotes complacency**
 - D. It fosters growth and identifies training needs**
- 9. What does a blocked ram hole with an open drain cause the airspeed indicator to read?**
- A. A speed of zero**
 - B. Inaccurate speed readings**
 - C. The same as the altimeter**
 - D. Erratic speed variations**
- 10. During which phase of a thunderstorm do most severe weather events occur?**
- A. Cumulus**
 - B. Mature**
 - C. Dissipation**
 - D. Formation**

Answers

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

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Explanations

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1. Which weather phenomenon is most likely to produce severe icing?

- A. Light rain showers**
- B. Thunderstorms**
- C. Clear skies**
- D. Overcast conditions**

Thunderstorms are indeed the weather phenomenon most likely to produce severe icing. This is largely due to the vigorous updrafts and downdrafts commonly found within thunderstorms, which can carry supercooled water droplets to higher altitudes where temperatures are below freezing. When these supercooled droplets come into contact with aircraft surfaces, they can freeze rapidly, leading to significant icing. This icing can accumulate quickly and severely, creating hazardous flying conditions. In contrast, light rain showers are typically not associated with the same intensity or structure found in thunderstorms, making them less likely to produce severe icing. Clear skies generally indicate stable atmospheric conditions, which also do not favor severe icing. Overcast conditions can sometimes lead to icing if temperatures are low enough, but they do not usually produce the severe conditions associated with thunderstorms. Thus, thunderstorms stand out as the prime scenario for severe icing due to their dynamic and turbulent nature.

2. The frequency of self-assessments by a CFII can primarily contribute to what aspect?

- A. Compliance with regulatory authorities**
- B. Improvement in instructional techniques**
- C. Cumulative flight hour requirements**
- D. Scheduling efficiency**

The frequency of self-assessments by a Certificated Flight Instructor (CFII) primarily contributes to the improvement in instructional techniques. Regular self-assessment allows instructors to reflect critically on their teaching methods, identify areas for development, and implement improvements in their training approaches. This ongoing evaluation fosters a commitment to continuous learning and enhances the quality of instruction provided to students. The process of self-assessment encourages the CFII to analyze their interactions with students, the clarity of their explanations, and the effectiveness of their feedback. In doing so, instructors can adapt their techniques to better suit individual learning styles, ultimately leading to more effective training outcomes. While compliance with regulatory authorities, cumulative flight hour requirements, and scheduling efficiency are important aspects of a CFII's responsibilities, they do not directly stem from the practice of self-assessment. Instead, these factors relate more to adherence to regulations and operational management rather than the personal and pedagogical development that self-assessment directly fosters.

3. In what ways can a CFII evaluate the effectiveness of their instructional methods?
- A. Through lesson plans alone.
 - B. By checking student performance assessments and collecting feedback.**
 - C. By avoiding student evaluations.
 - D. Through discussions with colleagues exclusively.

Evaluating the effectiveness of instructional methods is crucial for a Certified Flight Instructor (CFII) to ensure students are learning and progressing. One effective approach is to check student performance assessments and collect feedback. This method provides tangible evidence of a student's understanding and skill acquisition as measured through their performance on tests, flights, simulations, and other evaluations. Additionally, gathering feedback from students through surveys or discussions allows the instructor to gain insights into the learning experience from the student's perspective, identifying areas of success and areas needing improvement. This multifaceted approach ensures that the instructor can adapt their teaching style and materials to better meet the needs of the students, promoting a more effective learning environment. Reflecting on both performance assessments and student feedback enables continuous improvement in instructional methods, fostering better learning outcomes in aviation training.

4. When conducting pre-flight briefings, what should be prioritized?
- A. Only logistical concerns
 - B. Clear expectations and safety information**
 - C. Informal conversation
 - D. Visual aids

Prioritizing clear expectations and safety information during pre-flight briefings is crucial for ensuring that all participants understand the objectives, procedures, and safety considerations associated with the flight. This focus on clarity helps to establish a mutual understanding between the instructor and the students, fostering an effective learning environment. Proper communication of expectations enhances safety as all individuals are informed about their roles, what to expect during the flight, and how to respond in various scenarios. Incorporating safety information into the briefing is essential, as it addresses potential risks and outlines practices to mitigate them. This contributes to a culture of safety within the aviation environment, ensuring that all team members are aware of their responsibilities and the collective commitment to flying safely. While logistical concerns, informal conversation, and visual aids can supplement the briefing, they should not overshadow the primary goal of ensuring that everyone is on the same page regarding safety and expectations. Logistical details are important but secondary to the overarching need for safety and clear communication. Informal conversation may have its place in building rapport but does not provide the necessary clarity or structure needed for a pre-flight briefing. Visual aids can be helpful, yet they primarily serve as tools to enhance understanding rather than the core focus of the briefing itself.

5. For how long is a typical AIRMET valid?

- A. 1 hour
- B. 3 hours
- C. 6 hours**
- D. 12 hours

A typical AIRMET is valid for 6 hours. This time frame allows for timely updates to pilots regarding changing weather conditions that could impact flight safety, particularly for aircraft operating under visual flight rules (VFR) and those at lower altitudes. The intent of the 6-hour validity period is to ensure that the data stays relevant and useful. Since weather conditions can change rapidly, having a regular update cycle is crucial for flight planning and safety. AIRMETs are specifically issued for significant weather phenomena such as turbulence, icing, and IFR conditions that are expected to be affecting certain areas. While the other choices might seem plausible in differing contexts or other types of aviation weather products, they do not align with the standard duration of an AIRMET. Understanding the validity period helps pilots stay informed and prepared for flight operations in variable weather conditions.

6. What type of electrical system does the C172N use?

- A. 12 Volt AC system
- B. 28 Volt DC system**
- C. 24 Volt DC system
- D. 14 Volt DC system

The correct answer indicates that the Cessna 172N utilizes a 28 Volt DC electrical system. This type of system is significant in aviation for several reasons. Firstly, a 28 Volt system offers several advantages over lower voltage systems, such as improved efficiency in powering electrical components, which is particularly useful in aircraft where weight and space are critical. A 28 Volt DC system allows for smaller wire sizes and lighter components, which helps to reduce overall aircraft weight, enhancing performance and fuel efficiency. Additionally, modern avionics and electrical systems in aircraft demand more power for advanced features, which a 28 Volt system can effectively deliver. This system supports various electrical equipment, including navigation and communication systems, lights, and other onboard electronics, ensuring they operate reliably. The other choices refer to different voltage systems that are not applicable to the C172N. An understanding of the specific electrical system types commonly used in aviation is essential for maintenance and operation.

7. What formula is used to determine a standard rate turn?

- A. TAS - 10 + half
- B. TAS/10 + half of that**
- C. TAS x 2 + 5
- D. TAS - 5 + quarter

The formula used to determine a standard rate turn is TAS (True Airspeed) divided by 10, plus half of that result. This method provides a straightforward way of calculating the number of degrees per second required to achieve a standard rate turn, which is defined as a turn that changes the aircraft's heading by 3 degrees per second. To break it down: when you take the True Airspeed, dividing it by 10 gives you an initial value that corresponds to the turn rate. By adding half of that value, you adjust it to account for the specific conditions of the aircraft's speed and performance, ensuring that the turn maintains the standard rate of 3 degrees per second regardless of variations in airspeed. This formula is particularly useful for pilots to remember, as it allows for quick mental calculations during flight, assisting in maintaining situational awareness and effective maneuvering. Utilizing this approach leads to more consistent and controlled turns while ensuring compliance with performance standards in flight operations.

8. What role does self-evaluation play in a CFII's ongoing professional development?

- A. It hinders growth and learning
- B. It is unnecessary after initial training
- C. It promotes complacency
- D. It fosters growth and identifies training needs**

Self-evaluation plays a crucial role in a Certified Flight Instructor-Instrument (CFII)'s ongoing professional development as it fosters growth and identifies training needs. Through self-evaluation, a CFII can reflect on their teaching methods, knowledge base, and instructional effectiveness. This practice allows them to pinpoint areas that require improvement or further study, leading to targeted professional development efforts. Recognizing strengths and weaknesses helps a CFII set meaningful goals for continuing education and training, ensuring that they remain current with industry standards and best practices. Additionally, self-evaluation promotes a culture of lifelong learning, enabling instructors to adapt to new challenges and enhance their instructional skills. This proactive approach is essential in the aviation field, as regulations, technologies, and teaching strategies evolve consistently. By engaging in self-evaluation, a CFII not only boosts personal proficiency but also contributes positively to the overall safety and effectiveness of their instructional environment.

9. What does a blocked ram hole with an open drain cause the airspeed indicator to read?

- A. A speed of zero**
- B. Inaccurate speed readings**
- C. The same as the altimeter**
- D. Erratic speed variations**

When the ram hole of an airspeed indicator is blocked but the drain is left open, it results in a specific condition for the operation of the instrument. The ram hole is responsible for receiving dynamic pressure as the aircraft moves through the air, and blocking it means that the airspeed indicator cannot sense the changes in pressure that correspond to the aircraft's speed. In this scenario, since the ram air pressure cannot reach the indicator due to the blockage, the instrument will not reflect any changes in speed and ultimately will show a reading of zero. This occurs because the airspeed indicator relies on the difference between static and dynamic pressure for its readings; without the dynamic pressure from the ram air, there is nothing for the airspeed indicator to work with. The other choices highlight alternate responses that would not manifest in this situation, as the particular condition of having a blocked ram hole specifically leads to the instrument showing zero airspeed.

10. During which phase of a thunderstorm do most severe weather events occur?

- A. Cumulus**
- B. Mature**
- C. Dissipation**
- D. Formation**

The mature phase of a thunderstorm is characterized by the most intense and severe weather phenomena. During this stage, the storm reaches its peak strength, leading to conditions such as heavy rain, strong winds, hail, and even tornadoes. This occurs because the warm, moist air continues to rise, and the process of condensation releases latent heat, fueling the storm further. In the mature phase, updrafts become strong and organized, allowing for large drops of rain to form and fall. This is also when downdrafts develop, which can lead to severe turbulence and wind shear. The combination of these updrafts and downdrafts creates the potential for severe weather events. Other phases, such as the cumulus phase, involve the initial growth of the storm but do not usually produce severe weather, while the dissipation phase sees the storm weakening and losing structure. The formation phase is when the storm begins to develop, but it is the mature phase that is critical for the occurrence of severe weather events.