

FAA Aircraft Dispatcher Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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SAMPLE

Questions

- 1. When ensuring power availability due to APU inoperation, what should dispatchers verify?**
 - A. Flight routes being filed**
 - B. The airline's fuel capacity**
 - C. Availability of GPU and air start**
 - D. Flight crew qualifications**
- 2. What does an AIRMET specifically alert pilots about?**
 - A. Severe thunderstorms**
 - B. Moderate weather hazards**
 - C. Severe icing**
 - D. Major air traffic delays**
- 3. Which altitude is an IFR high altitude chart used for?**
 - A. Below 10,000 ft**
 - B. Up to but not including 18,000 ft**
 - C. 18,000 ft (FL180) to FL600**
 - D. Above FL600**
- 4. What are the three stages of a thunderstorm?**
 - A. Cumulus, Dissipating, and Dry**
 - B. Cumulus, Mature, and Dissipating**
 - C. Active, Dormant, and Mature**
 - D. Cumulus, Stable, and Final**
- 5. Which of the following is NOT a primary feature of a surface analysis chart?**
 - A. Pressure patterns**
 - B. Cloud height**
 - C. Fronts**
 - D. Reporting station information**

- 6. Which of these factors contributes to the formation of a squall line?**
- A. A line of static pressure**
 - B. Meeting of warm and cold air masses**
 - C. High humidity levels**
 - D. Steady winds from one direction**
- 7. What is the primary purpose of water vapor imagery in meteorology?**
- A. To assess air quality**
 - B. To analyze surface temperatures**
 - C. To locate storm systems and the jet stream**
 - D. To predict cloud formation**
- 8. With whom must the pilot in command maintain two-way communication throughout the entire flight?**
- A. Air traffic control only**
 - B. Dispatch and ground crew**
 - C. Dispatch and air traffic control**
 - D. Only the co-pilot**
- 9. What are three documents a pilot must carry onboard to the destination?**
- A. Flight Plan, Weather Report, and Dispatch Release**
 - B. Completed Load Manifest, Dispatch Release, and Flight Plan**
 - C. Aircraft Manual, Load Manifest, and Flight Plan**
 - D. Dispatch Release, Fuel Sheet, and Aircraft Log**
- 10. Which statement describes the minimum fuel policy for departures?**
- A. Always include extra reserve fuel based on weight**
 - B. Adequate fuel to alternate and 30 minutes at cruise**
 - C. Fuel based strictly on normal consumption rates**
 - D. Consideration for pilot preferences and airline standards**

Answers

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

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Explanations

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1. When ensuring power availability due to APU inoperation, what should dispatchers verify?

- A. Flight routes being filed**
- B. The airline's fuel capacity**
- C. Availability of GPU and air start**
- D. Flight crew qualifications**

When assessing power availability in the event that the Auxiliary Power Unit (APU) is inoperative, dispatchers need to ensure that there is an alternative source of power for ground operations and potentially for starting the engines. The availability of a Ground Power Unit (GPU) and an air start system is crucial in this scenario. A GPU provides electrical power to the aircraft while it is on the ground, which is essential for systems that require power but do not necessarily rely on the APU when it is unavailable. Similarly, an air start unit can assist in spooling up the aircraft's engines if the APU is unable to do so. Without these back-up options, the aircraft could face operational delays or be grounded due to inadequate power supply, which can impact the flight schedule and overall safety. In this context, while considerations like flight routes, fuel capacity, or crew qualifications are important aspects of flight planning and safety, they do not directly address the immediate need for power availability when the APU is not operational. Hence, verifying the availability of GPU and air start is the most relevant and crucial action for dispatchers in this situation.

2. What does an AIRMET specifically alert pilots about?

- A. Severe thunderstorms**
- B. Moderate weather hazards**
- C. Severe icing**
- D. Major air traffic delays**

An AIRMET is a type of weather advisory used by the FAA primarily to inform pilots about moderate weather conditions that may present hazards during flight. This includes phenomena such as moderate turbulence, moderate icing, and other conditions that might not meet the criteria for a SIGMET, which addresses more severe weather hazards. By providing this information, the AIRMET helps pilots to make informed decisions about their flight operations. While severe thunderstorms and severe icing are critical concerns for pilots, those conditions are specifically covered under different advisories, namely SIGMETs. Major air traffic delays are also not the focus of an AIRMET, as it does not deal with traffic management issues but rather with the safety concerns related to weather phenomena that could impact flight safety and comfort. Therefore, the AIRMET is crucial for alerting pilots to moderate weather hazards, which is the purpose of the advisory.

3. Which altitude is an IFR high altitude chart used for?

- A. Below 10,000 ft
- B. Up to but not including 18,000 ft
- C. 18,000 ft (FL180) to FL600**
- D. Above FL600

The altitude range for an IFR high altitude chart is from 18,000 feet up to Flight Level 600 (FL600). This range is specifically designed to provide pilots with navigational information and to facilitate the planning of en route flights in controlled airspace, where higher altitude operations take place. The use of high altitude charts is particularly important for jet routes and areas of increased air traffic. The data presented on these charts, including navigational aids and airspace classifications, is tailored to the needs of aircraft operating at these higher altitudes, where the dynamics of flight and airspace management differ significantly from lower altitudes. In contrast, other options refer to altitudes that fall outside of this high altitude range. For instance, altitudes below 18,000 feet are covered under the lower altitude charts, which are designed for operations in different operational environments and traffic levels.

4. What are the three stages of a thunderstorm?

- A. Cumulus, Dissipating, and Dry
- B. Cumulus, Mature, and Dissipating**
- C. Active, Dormant, and Mature
- D. Cumulus, Stable, and Final

The three stages of a thunderstorm are indeed Cumulus, Mature, and Dissipating, which reflects the progression of a thunderstorm's life cycle. In the Cumulus stage, warm, moist air rises and cools, leading to the formation of cumulus clouds. This stage is characterized by the initial development of convection currents and the growth of the cloud as moisture continues to rise. During the Mature stage, the thunderstorm reaches its peak intensity. Updrafts and downdrafts are present, with strong winds, heavy rain, and possibly hail. This stage is when the storm produces the most severe weather and why it is vital for aircraft dispatchers and pilots to monitor. Lastly, the Dissipating stage occurs as the storm begins to lose its strength and moisture. Downdrafts dominate, which leads to a decrease in precipitation and ultimately the storm's end. Understanding these stages is crucial for flight safety and weather-related decision-making. The other options do not accurately capture the distinct phases of thunderstorm development as recognized in meteorology.

5. Which of the following is NOT a primary feature of a surface analysis chart?

- A. Pressure patterns**
- B. Cloud height**
- C. Fronts**
- D. Reporting station information**

The identification of cloud height as not being a primary feature of a surface analysis chart is accurate because surface analysis charts focus primarily on visualizing meteorological conditions at the Earth's surface, including pressure systems, fronts, and the reporting of meteorological data from various stations. Surface analysis charts are specifically designed to depict the arrangement of high and low-pressure systems, isobars, weather fronts, and other significant meteorological features that influence weather patterns. While cloud height can be relevant for certain weather analyses, it is not a critical element presented in surface analysis charts themselves. Instead, this type of chart is more concerned with how atmospheric pressure and weather fronts are configured at a given time, which directly influences weather conditions at the surface level. In contrast, other elements like pressure patterns are vital for understanding the movement of air masses, while fronts are crucial for identifying where different air masses meet, leading to potential weather changes. Additionally, reporting station information provides important context for meteorological observations, further underscoring its role in surface analysis.

6. Which of these factors contributes to the formation of a squall line?

- A. A line of static pressure**
- B. Meeting of warm and cold air masses**
- C. High humidity levels**
- D. Steady winds from one direction**

The correct answer highlights the significance of the interaction between warm and cold air masses in the formation of a squall line. A squall line is a specific type of convective weather pattern that occurs when a line of thunderstorms develops, typically ahead of a cold front. When warm, moist air rises and encounters a mass of cooler, denser air, it leads to instability in the atmosphere, which is a crucial element for thunderstorm development. The lifting of the warm air results in cloud formation and can produce severe weather conditions such as heavy rain and strong winds characteristic of squall lines. The other factors mentioned do not directly contribute to the formation of a squall line in the same dynamic way. A line of static pressure does not foster the necessary uplift mechanisms; high humidity levels alone, while they do support cloud development, do not cause the essential lifting necessary for squall line formation; and steady winds from one direction may not help in creating the required airflow patterns that facilitate the convergence of different air masses needed for a squall line to emerge. Thus, the interaction of warm and cold air masses stands out as the primary driver for the formation of these weather phenomena.

7. What is the primary purpose of water vapor imagery in meteorology?

- A. To assess air quality**
- B. To analyze surface temperatures**
- C. To locate storm systems and the jet stream**
- D. To predict cloud formation**

Water vapor imagery serves as a critical tool in meteorology, particularly for identifying and monitoring atmospheric phenomena. The primary purpose of this type of imagery is to locate storm systems and the jet stream. Water vapor satellites capture the amount of moisture present in the atmosphere, which is essential for understanding weather patterns. Storm systems, including cyclones and hurricanes, often have distinct signatures in water vapor imagery due to their moisture content, making it easier for meteorologists to track their development and movement. Additionally, the jet stream—an upper-level wind current that influences weather systems—is often visible in water vapor imagery, as it correlates with areas of rising and sinking air, which are essential for storm formation and intensification. This capability allows forecasters to make more informed predictions regarding severe weather. While assessing air quality, analyzing surface temperatures, and predicting cloud formation are important aspects of meteorology, they are not the primary functions of water vapor imagery. Each of those areas relies on different types of data and imagery to provide relevant insights. Water vapor imagery specifically focuses on moisture content in the atmosphere, which is directly linked to the identification and analysis of storm systems and jet stream patterns.

8. With whom must the pilot in command maintain two-way communication throughout the entire flight?

- A. Air traffic control only**
- B. Dispatch and ground crew**
- C. Dispatch and air traffic control**
- D. Only the co-pilot**

The pilot in command is responsible for ensuring safe flight operations and must maintain two-way communication with both air traffic control and dispatch throughout the flight. This requirement arises from the need for clear communication regarding flight plans, route changes, and any potential emergencies that may arise during the course of the flight. Air traffic control provides critical services related to navigation and airspace management, offering guidance and instructions to the crew. Dispatch assists with flight planning, monitoring the flight's progress, and ensuring compliance with regulations. Therefore, having an open line of communication with both enables the pilot to receive real-time updates and support, enhancing safety and efficiency. Other options are limited in scope; for instance, communicating solely with air traffic control does not account for the support and information needed from dispatch. Similarly, communication restricted to dispatch and the ground crew leaves out the essential air traffic control interaction that is vital during the flight. Communication exclusively with a co-pilot is also insufficient, as it does not address the necessary exchanges with external entities critical to flight safety and support.

9. What are three documents a pilot must carry onboard to the destination?

A. Flight Plan, Weather Report, and Dispatch Release

B. Completed Load Manifest, Dispatch Release, and Flight Plan

C. Aircraft Manual, Load Manifest, and Flight Plan

D. Dispatch Release, Fuel Sheet, and Aircraft Log

A pilot is required to carry certain essential documents for safe operation and regulatory compliance during a flight. The completed load manifest, dispatch release, and flight plan are critical for a number of reasons. The completed load manifest provides vital information regarding the weight distribution of the aircraft, which is necessary for safe takeoff, flight, and landing. It helps in ensuring that the aircraft is loaded within the weight limits and that the center of gravity falls within safe parameters. The dispatch release is a document provided by the airline's operations that authorizes the flight to take off. It includes all pertinent information such as route, taxi instructions, and any special instructions as well as the necessary approvals that confirm the aircraft is ready and airworthy for the journey. The flight plan is a crucial document that outlines the intended route and altitudes to be flown. It helps the pilot, air traffic control, and dispatchers monitor the flight effectively. The flight plan also contains route waypoints, estimated times of arrival, and necessary operational details. Together, these documents ensure that the flight is conducted safely, adheres to regulations, and effectively communicates vital information to all parties involved in the operation of the flight.

10. Which statement describes the minimum fuel policy for departures?

A. Always include extra reserve fuel based on weight

B. Adequate fuel to alternate and 30 minutes at cruise

C. Fuel based strictly on normal consumption rates

D. Consideration for pilot preferences and airline standards

The minimum fuel policy for departures is structured to ensure that an aircraft has sufficient fuel to safely complete its journey, including any contingencies that may arise. The correct answer states that the policy requires enough fuel to reach an alternate airport plus an additional 30 minutes of fuel at cruising speed. This requirement is crucial for several reasons. First, having adequate fuel to reach an alternate airport ensures that if the primary destination becomes unfeasible due to weather, emergencies, or other operational reasons, the flight can proceed to a safe location. The additional 30 minutes of cruising fuel acts as a buffer that provides the crew extra time to make decisions, navigate, and descend as necessary should they encounter unforeseen circumstances such as air traffic delays or changes in weather conditions. This policy reflects the principles of risk management and safety in aviation operations, making it a fundamental guideline to follow for any departure. In contrast, other options either narrow down fuel considerations too strictly or do not encompass essential safety margins that account for variations in circumstances during flight operations.