

Republic Airways Entrance Practice Exam (Sample)

Study Guide



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Questions

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- 1. What are city pairs in aviation terminology?**
 - A. A combination of two identical airports**
 - B. The two cities involved in a flight route**
 - C. A list of cities with connecting flights**
 - D. Pairs of cities with a high passenger volume**
- 2. What describes wind blowing at an angle to the line of an aircraft?**
 - A. Cross Wind**
 - B. Head Wind**
 - C. Tail Wind**
 - D. Updraft**
- 3. What does the acronym FAM stand for in aviation terminology?**
 - A. Federal Air Marshal**
 - B. Flight Attendant Manager**
 - C. Federal Assignment Monitor**
 - D. Flight Attendant Manual**
- 4. Where is Engine 1 located on an aircraft?**
 - A. Under the right wing**
 - B. Under the left wing**
 - C. In the fuselage**
 - D. On the tail**
- 5. Which component of the empennage is responsible for managing left and right movement of the aircraft?**
 - A. Elevator**
 - B. Rudder**
 - C. Ailerons**
 - D. Vertical Stabilizer**

- 6. What is the primary purpose of a carry-on item on an aircraft?**
- A. An item intended for security convenience**
 - B. For luggage storage in the cabin**
 - C. To be sold to passengers during the flight**
 - D. To provide additional comfort to passengers**
- 7. What does the term "ballast" refer to in aviation?**
- A. Balance measures for inflight stability**
 - B. Emergency landing procedures**
 - C. Safety equipment in the cabin**
 - D. Passenger weight calculations**
- 8. What is included in the Minimum Equipment List (MEL)?**
- A. A list of optional equipment**
 - B. A list of essential items that can be deferred**
 - C. A list of emergency contact numbers**
 - D. A list of crew member names**
- 9. Which of the following equipment checks occurs during preflight?**
- A. Passenger boarding procedures**
 - B. Camera checks for security purposes**
 - C. Emergency equipment checks**
 - D. Seat configuration reviews**
- 10. What is the primary function of the empennage in an aircraft?**
- A. To control speed and altitude**
 - B. To house important flight controls for stability**
 - C. To enhance aerodynamic performance**
 - D. To protect the aircraft's electronics**

Answers

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

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Explanations

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1. What are city pairs in aviation terminology?

- A. A combination of two identical airports
- B. The two cities involved in a flight route**
- C. A list of cities with connecting flights
- D. Pairs of cities with a high passenger volume

City pairs in aviation terminology refer specifically to the two cities involved in a flight route. This concept is essential for understanding airline operations and route planning, as it highlights the origin and destination points for passenger travel. When airlines look at city pairs, they analyze routes based on demand for travel between those specific cities. Each flight connects one city to another, making it vital for airlines to identify which city pairs generate the most traffic, thereby impacting scheduling, pricing, and overall operational strategies. While there are various ways to look at airport connections and traffic, such as linking cities with connecting flights or focusing on high passenger volume areas, the fundamental definition of city pairs emphasizes the direct relationship between two locations served by a particular flight.

2. What describes wind blowing at an angle to the line of an aircraft?

- A. Cross Wind**
- B. Head Wind
- C. Tail Wind
- D. Updraft

The term that accurately describes wind blowing at an angle to the line of an aircraft is crosswind. When wind interacts with an aircraft from a direction that is not directly head-on or from behind, it creates crosswinds. This condition can affect the aircraft's ground track and requires skillful handling by the pilot to maintain proper aerodynamic control during takeoff, landing, or while in flight. Crosswinds are an important factor to consider for runway alignment and can have a significant impact on the aircraft's approach and departure angles. In contrast, headwinds blow directly against the aircraft, providing increased lift and slowing its forward movement relative to the ground, while tailwinds blow from behind, which can enhance ground speed. Updrafts refer to vertical wind movements, rising air that can lift the aircraft but does not pertain to wind blowing at an angle to the aircraft's direction. Understanding these wind types is crucial in aviation, particularly for safe takeoff and landing operations.

3. What does the acronym FAM stand for in aviation terminology?

- A. Federal Air Marshal**
- B. Flight Attendant Manager**
- C. Federal Assignment Monitor**
- D. Flight Attendant Manual**

The term FAM in aviation primarily stands for Federal Air Marshal. This designation refers to law enforcement officers who are part of the Transportation Security Administration (TSA) in the United States. Their key responsibility is to ensure the safety and security of airline passengers and crew while in flight, often operating covertly on various commercial flights to deter potential acts of terrorism and provide immediate response capabilities should an incident arise. While the other options represent various roles and documents within the aviation field, none carry the same formal recognition or specific responsibilities associated with flight security that the Federal Air Marshal holds. For instance, the Flight Attendant Manager relates to a managerial role overseeing flight attendant operations, which is important for in-flight service but does not encompass security duties. The Federal Assignment Monitor, while potentially relevant in specific contexts, is not a widely recognized term associated with aviation security, and the Flight Attendant Manual, although vital for crew operations and training, pertains to operational guidelines rather than security measures. Thus, in the context of aviation security and its implications, Federal Air Marshal is the most appropriate definition for the acronym FAM.

4. Where is Engine 1 located on an aircraft?

- B. Under the left wing**
- A. Under the right wing**
- C. In the fuselage**
- D. On the tail**

Engine 1 is typically located under the left wing of an aircraft, which is standard for many commercial jet designs. This positioning serves several purposes, including balancing the aircraft's weight and providing ease of access for maintenance and inspections. When considering the design of most aircraft, having engines mounted on the wings allows for better aerodynamics and stability during flight. It also means that if an engine failure occurs, the aircraft can continue to fly with more manageable characteristics due to the placement of the remaining engines. In contrast, the other options represent locations where engines are generally not found in conventional multi-engine aircraft. For instance, engines positioned under the right wing or in the tail are specific arrangements for different aircraft designs, but they aren't the standard for indicating Engine 1 as the left wing location is more universally recognized.

5. Which component of the empennage is responsible for managing left and right movement of the aircraft?

- A. Elevator**
- B. Rudder**
- C. Ailerons**
- D. Vertical Stabilizer**

The component of the empennage that manages the left and right movement of the aircraft is the rudder. The rudder is a vertical control surface located on the vertical stabilizer at the tail of the aircraft. It primarily controls the yaw movement, which is the rotation of the aircraft around its vertical axis. By deflecting the rudder to one side, the pilot can create a differential thrust that causes the aircraft to rotate left or right. While the elevator, ailerons, and vertical stabilizer play important roles in flight control, they function differently. The elevator is responsible for managing pitch, or the up-and-down movement of the aircraft's nose. Ailerons control roll, which tilts the aircraft to the left or right. The vertical stabilizer, while it provides stability and houses the rudder, does not itself control movement but rather aids in maintaining directional stability.

6. What is the primary purpose of a carry-on item on an aircraft?

- A. An item intended for security convenience**
- B. For luggage storage in the cabin**
- C. To be sold to passengers during the flight**
- D. To provide additional comfort to passengers**

The primary purpose of a carry-on item on an aircraft is indeed for luggage storage in the cabin. Carry-on items allow passengers to keep their essential belongings close by during a flight, ensuring convenience and accessibility without having to retrieve checked luggage from the cargo hold. This can include personal items such as laptops, medications, documents, or a change of clothes. The significance of this function becomes clear when considering the context of air travel, as passengers may need immediate access to certain items during the flight, and having these items readily available in the cabin enhances the travel experience. Additionally, bringing a carry-on can help expedite boarding and deplaning processes, as passengers are responsible for managing their own luggage in the overhead bins or under their seats. While other choices touch on aspects related to travel and items on board, they do not align with the primary function of a carry-on. For instance, the notion of an item for security convenience focuses more on compliance with regulations rather than the practical use during the flight, while items sold during the flight typically refer to in-flight service rather than personal belongings. Comfort items are also significant, yet they do not capture the primary logistical purpose of carry-on luggage in air travel.

7. What does the term "ballast" refer to in aviation?

A. Balance measures for inflight stability

B. Emergency landing procedures

C. Safety equipment in the cabin

D. Passenger weight calculations

In aviation, the term "ballast" refers to additional weight placed in an aircraft to ensure stability and balance during flight. This weight helps to counteract the effects of variables, such as fuel burn or passenger movement, which can change the center of gravity. Properly managing ballast is crucial for maintaining an aircraft's performance characteristics and ensuring safe handling. When an aircraft is out of balance, it can lead to difficulties in control, increased drag, and potential safety hazards. Therefore, implementing ballast effectively aids pilots in achieving required operational limits and optimal performance. This understanding of ballast is essential for flight safety and proper aircraft operations. The other options do not accurately reflect the specific role that ballast plays in aviation.

8. What is included in the Minimum Equipment List (MEL)?

A. A list of optional equipment

B. A list of essential items that can be deferred

C. A list of emergency contact numbers

D. A list of crew member names

The Minimum Equipment List (MEL) is a crucial document that specifies the instruments, equipment, and systems that must be operational for a particular flight to be legally conducted. It also allows for the deferral of specific non-essential items under certain conditions, provided that safety is not compromised. Therefore, the MEL includes a precise inventory of essential items that can be deferred, meaning that the operation can still be performed even if certain non-critical components are inoperative, as long as the aircraft remains safe to fly. The focus on deferring non-essential items is vital because it provides operational flexibility while ensuring that all critical safety equipment remains functional. This distinguishes the MEL as a key document for managing aircraft operations and compliance with regulatory standards.

9. Which of the following equipment checks occurs during preflight?

- A. Passenger boarding procedures**
- B. Camera checks for security purposes**
- C. Emergency equipment checks**
- D. Seat configuration reviews**

The checks performed during preflight play a crucial role in ensuring the safety and security of passengers and crew. One key aspect of these checks is the inspection of emergency equipment. This includes verifying that all safety gear, such as life vests, oxygen masks, and first aid kits, is on board, properly stowed, accessible, and functioning correctly. Ensuring that emergency equipment is in optimal condition is essential, as it prepares the crew to effectively respond to any potential emergencies during the flight. Although passenger boarding procedures, security camera checks, and seat configuration reviews are important aspects of overall operational readiness, they do not focus solely on the critical safety equipment that is specifically addressed in preflight checks. Thus, emergency equipment checks stand out as a vital element in maintaining safety standards, which is why it is the correct answer.

10. What is the primary function of the empennage in an aircraft?

- A. To control speed and altitude**
- B. To house important flight controls for stability**
- C. To enhance aerodynamic performance**
- D. To protect the aircraft's electronics**

The primary function of the empennage, also known as the tail section of an aircraft, is to house essential flight controls that contribute to the aircraft's stability. Specifically, the empennage includes components such as the horizontal stabilizer and the vertical stabilizer, which work together to ensure that the aircraft remains balanced during flight. The horizontal stabilizer helps maintain the pitch attitude, preventing unwanted nose-up or nose-down movements, while the vertical stabilizer aids in controlling yaw and maintaining directional stability. By providing these stabilizing forces, the empennage plays a crucial role in the safe and effective operation of the aircraft. It is designed to keep the aircraft controllable, enabling it to maintain a steady flight path, which is vital for both performance and safety. Understanding the importance of the empennage in providing stability helps clarify why it is integral to the overall design and function of an aircraft.