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Continuing Education Course #412
Airport Engineering
Part I - Fundamentals

1. An airport has a runway that aligns exactly north and south. What runway number does the pilot see when approaching to land from the north?

- a. 180
- b. 36
- c. 360
- d. 18
- e. 1.8

2. Which type of terminal allows aircraft to park around the entire building?

- a. Pier Terminal
- b. Semicircular Terminal
- c. Mobile Lounge Terminal
- d. Linear Terminal
- e. Satellite Terminal

3. Which of the following airport features are owned and maintained by the FAA?

- a. Snow Removal Vehicles
- b. Security Checkpoint Metal Detectors
- c. Air Traffic Control Equipment
- d. Pilot Lounges
- e. Moving Walkways

4. NAVAIDs include systems and instruments that assist pilots during aircraft operations. Which of these is not a NAVAID?

- a. CTAF
- b. VOR
- c. PAPI
- d. ILS
- e. LOC

5. An engineer designs a taxiway leading from the runway to a parking apron and specifies the TOFA to be 89'. What does TOFA stand for?

- a. Terminal Occupancy for Airlines
- b. Taxiway Object Free Area
- c. Taxi Over From Airport
- d. Taxiway Obstacle Freedom Area
- e. Take Off Fairly Abruptly

6. Dealing with wildlife is imperative for safety airport operations. Which of the following should an airport have in place for this issue?

- a. WCAM
- b. WHMM
- c. WWHM
- d. WPA
- e. WHMP

7. What is the mission statement of the FAA?

- a. Ensure all pilots and airport personnel are properly trained.
- b. Create the most effective transportation system in North America.
- c. Make certain all pilots are mildly frustrated at least once a day.
- d. Provide the fastest, most professional aerospace system in the world.
- e. Provide the safest, most efficient aerospace system in the world.

8. Regarding new and existing airports, which of the following is false?

- a. Airport planning should consider both present and future aviation needs and demands.
- b. Safety is the highest priority.
- c. Existing airports do not need to be brought up to current standards as long as they are safe.
- d. Existing airports should be brought up to current standards where possible.
- e. For non-standard conditions, the FAA may consider alternative means of ensuring a proper level of safety.

9. An engineering firm works in conjunction with an airport planning company to create an ALP for a new airport. The land beyond the end of one runway (within the RPZ) is owned by a neighboring farmer who currently grazes cattle there. To comply with FAA mandates and integrate prudent safety measures, the best procedure for the airport is to:

- a. Purchase the land from the farmer to prevent development that could obstruct aircraft operations.
- b. Sign a long-term agreement with the farmer to ensure nothing taller than a cow is present on the land.
- c. Petition the local government to condemn the land.
- d. Give the farmer free airline tickets for life so he doesn't obstruct the runway approach with buildings.
- e. Offer to name the airport after the farmer in exchange for a large percentage of revenue from the land.

10. What is the AAC/ADG classification of an Airbus A350-900 with a wingspan of 212' and approach speed of 145 knots?

- a. B-III
- b. C-III
- c. B-IV
- d. C-V
- e. D-V

11. What is the AAC/ADG classification of a Gulfstream G500 with a wingspan of 94' and approach speed of 140 knots?

- a. B-III
- b. C-III
- c. B-I
- d. C-IV
- e. D-V

12. Portland International Airport (PDX) has three runways. What is the length of RW 28L/10R?

- a. 9,825'
- b. 6,000'
- c. 11,000'

- d. 5,000'
- e. 10,000'

13. Minneapolis St.-Paul (MSP) International Airport has four "hotspots" indicated on the airport diagram. Three of them are runway intersections. The fourth is located where?

- a. Taxiway W1 @ Runway 30L
- b. Taxiway W10 @ Runway 12R
- c. Terminal 2
- d. North Run-Up Pad
- e. Fire Station 1

14. Which federal regulation addresses safety, preservation, and other subjects regarding navigable airspace?

- a. FAA Order 5050.4
- b. 49 CFR Part 1544
- c. 14 CFR Part 77
- d. AC 150/5370-2
- e. 14 CFR Part 150

15. Which federal regulation addresses airport noise?

- a. FAA Order 5100.38
- b. 14 CFR Part 157
- c. 14 CFR Part 150
- d. AC 150/5370-10
- e. AC 150/5070-6

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