

1. What is the purpose of zoning regulations in airport construction and development?

- a) To regulate the height and usage of structures around the airport
- b) To control the density of air traffic in the airport vicinity
- c) To determine the types of aircraft allowed to operate at the airport
- d) To establish noise pollution limits in the airport area

Answer: a) To regulate the height and usage of structures around the airport

Explanation: Zoning regulations help ensure that structures around airports do not obstruct flight paths or interfere with navigation aids by restricting their height and usage.

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2. Which type of approach surface is defined by an imaginary inclined plane extending outward and upward from the runway's edge?

- a) Horizontal approach surface
- b) Conical approach surface
- c) Imaginary approach surface
- d) Sloped approach surface

Answer: b) Conical approach surface

Explanation: The conical approach surface is defined by an imaginary inclined plane that extends outward and upward from the runway's edge at a specified slope.

3. What is the purpose of a rotating beacon at an airport?

- a) To guide aircraft during takeoff and landing
- b) To provide a visual reference point for pilots
- c) To signal the presence of an airport from a distance
- d) To indicate the location of the airport's control tower

Answer: c) To signal the presence of an airport from a distance

Explanation: Rotating beacons are used to indicate the presence of an airport and its location to pilots from a distance, especially during nighttime or low visibility conditions.

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4. Which lighting system helps pilots to identify the boundaries of the runway and taxiways during night operations?

- a) Approach lights
- b) Boundary lights
- c) Runway lights
- d) Taxiway lights

Answer: b) Boundary lights

Explanation: Boundary lights are installed to delineate the edges of runways and taxiways, aiding pilots in maintaining proper alignment during night operations.

5. What is the primary function of the precision approach radar (PAR) system?

- a) To guide aircraft during precision instrument approaches
- b) To provide real-time weather updates to air traffic controllers
- c) To monitor ground traffic on airport taxiways
- d) To assist pilots in locating nearby aircraft

Answer: a) To guide aircraft during precision instrument approaches

Explanation: Precision approach radar (PAR) provides precise guidance to aircraft during instrument approaches, particularly in adverse weather conditions or low visibility.

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6. Which air navigation aid provides both lateral and vertical guidance to aircraft during enroute phases of flight?

- a) VOR
- b) NDB
- c) DME
- d) GPS

Answer: a) VOR

Explanation: VOR (VHF Omnidirectional Range) provides aircraft with both lateral and vertical guidance information during enroute phases of flight.

7. What is the function of the approach lights system on a runway?

- a) To indicate the runway's centerline
- b) To illuminate the runway threshold
- c) To mark the touchdown zone for landing aircraft
- d) To guide aircraft during takeoff

Answer: c) To mark the touchdown zone for landing aircraft

Explanation: Approach lights help pilots identify the touchdown zone of the runway and provide guidance during the final stages of landing.

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8. How does the instrumental landing system (ILS) assist pilots during approach and landing?

- a) By providing visual cues for landing in low visibility conditions
- b) By transmitting precise course and glidepath information to the aircraft
- c) By controlling the speed of the aircraft during approach
- d) By communicating with air traffic control for landing clearance

Answer: b) By transmitting precise course and glidepath information to the aircraft

Explanation: The Instrument Landing System (ILS) provides pilots with precise course and glidepath information to assist in approach and landing, especially in low visibility conditions.

9. What is the purpose of enroute traffic control services provided by VOR stations?

- a) To assist aircraft during takeoff and landing
- b) To provide weather updates to aircraft in flight
- c) To guide aircraft along airways during the enroute phase of flight
- d) To communicate with aircraft within airport traffic control zones

Answer: c) To guide aircraft along airways during the enroute phase of flight

Explanation: VOR stations provide enroute traffic control services by guiding aircraft along designated airways during the enroute phase of flight.

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10. Which type of surface is used to define the imaginary surface above and along the runway that aircraft must not penetrate during approach and landing?

- a) Horizontal approach surface
- b) Conical approach surface
- c) Imaginary approach surface
- d) Sloped approach surface

Answer: a) Horizontal approach surface

Explanation: The horizontal approach surface is used to define the imaginary surface above and along the runway that aircraft must not penetrate during approach and landing

maneuvers.