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**1. As per ICAO recommendation, minimum width of safety area for instrumental runway should be**

- a) 78 m
- b) 150 m
- c) 300 m
- d) 450 m

Ans: c

**2. As per ICAO, for A, B, and C type of airports, maximum effective, transverse and longitudinal grades in percentage respectively are**

- a) 1.0, 1.5 and 1.5
- b) 1.0, 1.5 and 2.0
- c) 1.5, 1.5 and 2.0
- d) 2.0, 2.0 and 2.0

Ans: a

**3. As per ICAO recommendation, the rate of change of longitudinal gradient per 30 m length of vertical curve for A and B type of airports is limited to a maximum of**

- a) 0.1 %
- b) 0.2%
- c) 0.3 %
- d) 0.4%

Ans: a

**4. Assertion A : The ratio of arriving and departing aircrafts influences the airport capacity: Reason R :Landing operation is generally given priority over the taking off operation.**

**Select your answer based on the coding system given below:**

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true and R is not the correct explanation of A
- c) A is true but R is false.
- d) A is false but R is true.

Ans: a

**5. An airport has 4 gates. If the weighted average gate occupancy time is 30 minutes and gate utilisation factor is 0.5, then the capacity of the gate will be**

- a) 1 aircraft per hour
- b) 2 aircrafts per hour
- c) 4 aircrafts per hour
- d) 16 aircrafts per hour

Ans: c

**6. The capacity of parallel runway pattern depends upon**

- a) weather conditions and navigational aids available
- b) lateral spacing between two runways and weather conditions
- c) lateral spacing between two runways and navigational aids available
- d) lateral spacing between two runways, weather conditions and navigational aids available.

Ans: d

**7. The engine failure case for determining the basic runway length may require**

- a) only clearway
- b) only stop way ,
- c) either a clearway or a stopway
- d) either a clearway or a stopway or both

Ans: d

**8. The minimum width of clearway is**

- a) 50 m
- b) 100 m
- c) 150 m
- d) 250 m

Ans: c

**9. If the monthly mean of average daily temperature for the hottest month of the year is 25° C and the monthly mean of the maximum daily temperature of the same month of the year is 46° C, the airport reference temperature is**

- a) 32°C
- b) 35.5°C
- c) 48°C
- d) 25°C

Ans: c

**10. Consider the following statements regarding ICAO recommendation for correction to basic runway length**

1. The basic runway length should be increased at the rate of 7 percent per 300 m rise in elevation above the mean sea level.
2. The basic runway length after having been corrected for elevation should be further increased at the rate of 1 percent for every 1°C rise in airport reference temperature above the standard atmospheric temperature at that elevation.
3. The runway length after having been corrected for elevation and temperature should be further increased at the rate of 20% for every 1 percent of effective gradient.

Of these statements

- a) 1 and 2 are correct
- b) 2 and 3 are correct
- c) 1 and 3 are correct
- d) 1,2 and 3 are correct

Ans: a