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300+ TOP AIRPORT ENGINEERING Objective Type Questions and Answers

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Airport Engineering MCQs :-

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

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- 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



Airport Engineering mcqs

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.

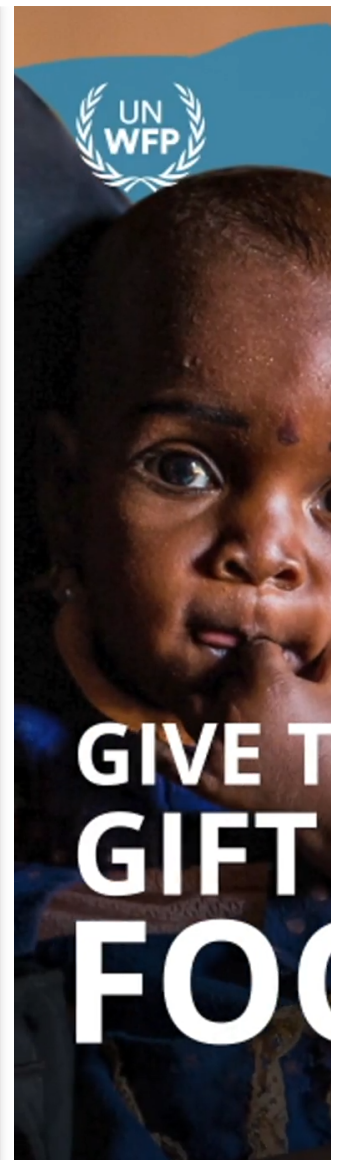
Select your answer based on the coding system given below:

- 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

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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

10. 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

11. 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

12. The total length of a runway is 1000 m. The elevation at distance 0,200 m, 400 m, 600 m, 800 m and 1000 m are 100.0 m, 99.2 m, 101.0 m, 101.8 m, 101.4 m and 101.0 m respectively. The effective gradient of runway will be.

- a) 0.10%
- b) 0.26%
- c) 0.43 %
- d) 0.65%

Ans: b

13. The length of runway under standard conditions is 2000 m. The elevation of airport site is 300 m. Its reference temperature is 33.05°C. If the runway is to be constructed with an effective gradient of 0.25 percent, the corrected runway length will be

- a) 2500 m
- b) 2600 m
- c) 2700 m
- d) 2800 m

Ans: c

14. As per ICAO, the minimum basic runway length for A and E type of airport will be

- a) 1500 m and 600 m
- b) 2100 m and 750 m
- c) 1500 m and 750 m
- d) 2100 m and 600 m

Ans: d

15. Zero fuel weight of an aircraft is:

- a) equal to empty operating weight
- b) equal to maximum landing weight
- c) less than empty operating weight
- d) equal to sum of empty operating weight and the maximum payload.

Ans: d

17. The cruising speed of the aircraft is 500 kmph. If there is a head wind of 50 kmph, then the air speed and ground speed of the aircraft respectively will be

- a) 450 kmph and 500 kmph

- b) 500 kmph and 450 kmph
- c) 450 kmph and 450 kmph
- d) 500 kmph and 500 kmph

Ans: a

19. As per ICAO, for airports serving big aircrafts, the crosswind component should not exceed

- a) 15 kmph
- b) 25 kmph
- c) 35 kmph
- d) 45 kmph

Ans: c

20. Calm period is the percentage of time during which wind intensity is less than

- a) 4.8 kmph
- b) 6.4 kmph
- c) 8.0 kmph
- d) 9.6 kmph

Ans: b

21. For determining the basic runway length, the landing case requires that aircraft should come to a stop within p % of the landing distance. The value of p is

- a) 40 %
- b) 50%
- c) 60%
- d) 75%

Ans: c

22. According to ICAO, all markings on the runways are

- a) Yellow
- b) White
- c) Black
- d) Red

Ans: b

23. Runway threshold is indicated by a series of parallel lines starting from a distance of

- a) 3 m from runway end
- b) 6 m from runway end

c) 10 m from runway end

d) 15m from runway end

Ans: b

24. The width and interval of transverse centre line bars along the extended centre line of runway, in approach lighting system are

a) 3 m and 30 m

b) 4.2 m and 30 m

c) 4.2 m and 50 m

d) 3 m and 45 m

Ans: b

25. In Instrumental landing system, the middle markers are located

a) along the extended centre line of runway end

b) about 1 km. ahead of the runway threshold

c) at the runway threshold

d) about 7 km. ahead of the runway threshold

Ans: b

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26. The size of landing area for multiengined helicopters operating under 1FR conditions is

a) 22.5 m x 22.5 m

b) 30 m x 30 m

c) 22.5 m x 30 m

d) 60 mx 120 m

Ans: d

27. The centre to centre spacing of heliport lighting along the periphery of landing and take off area should be

a) 2.5 m

b) 5.0 m

c) 7.5 m

d) 10.0 m

Ans: c

28. The slope of the obstruction clearance line from the boundary of the heliport should be

a) 1:2

- b) 1:5
- c) 1:8
- d) 1:40

Ans: c

29. Assertion A : Airport capacity during IFR conditions is usually less than that during VFR conditions.

Reason R: During clear weather condition (VFR), the aircrafts on final approach to runway can be spaced closer during poor visibility conditions.

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 but 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

30. Assertion A: The width of a taxiway is smaller than the runway width. Reason R: The speed of the aircraft on a taxiway is greater than that on runway. Select your answer based on 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 but 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: c

31. For supersonic transport aircraft, the minimum turning radius of taxiway is

- a) 60 m
- b) 120 m
- c) 180 m
- d) 240 m

Ans: c

33. As per UK design criteria, if LCN of aircraft is between 1.25 to 1.5 times the LCN of pavement, then the number of movements allowed are

- a) Zero
- b) 300

- c) 3000
- d) Unrestricted

Ans: b

34. Which of the following is an example of failure in flexible pavements ?

- a) Alligator cracking
- b) Mud pumping
- c) Warping cracks
- d) Shrinkage cracks

Ans: a

35. The main disadvantage of angle nose out parking configuration of aircraft is that the

- a) aircraft rear loading door is far away from terminal building.
- b) hot blast is directed towards the terminal building
- c) overall apron area required is more
- d) all the above

Ans: b

36. Which of the following is used for servicing and repairs of the aircraft ?

- a) Apron
- b) Hanger
- c) Terminal building
- d) holding apron

Ans: b

37. The slope of the transitional surface for A, B and C type of runway shall be

- a) 1:5
- b) 1:7
- c) 1:10
- d) 1:12

Ans: b

38. The length of clear zone for none instrument runway of a small aircraft is

- a) 150 m
- b) 300 m
- c) 600 m

d) 750 m

Ans: b

39. In approach areas of runways equipped with instrumental landing facilities any object within 4.5 km distance from runway end shall be considered as an obstruction if its height is more than

a) 20 m

b) 30 m

c) 45 m

d) 51 m

Ans: b

40. Maximum gross take-off weight of an aircraft is

a) equal to the maximum structural landing weight

b) less than the maximum structural landing weight

c) more than the maximum structural landing weight

d) equal to the empty operating weight plus the payload

Ans: c

41. Consider the following statements: Wind rose diagram is used for the purposes of

1. runway orientation

2. estimating the runway capacity

3. geometric design of holding apron Of these statements

a) 1 and 2 are correct

b) 2 and 3 are correct

c) 1 and 3 are correct

d) 1 alone is correct

Ans: d

42. Which of the following factors are taken into account for estimating the runway length required for aircraft landing?

1. Normal maximum temperature

2. Airport elevation

3. Maximum landing weight

4. Effective runway gradient

Select the correct answer using the codes given below Codes:

a) 1,2,3 and 4

b) 1,3, and 4

- c) 2 and 3
 - d) 1,2 and 4
- Ans: d

43. In an airport, if 4 groups of 5 gates each located well-separated are considered for traffic and the future to present traffic ratio is 3, then the total requirement of future gates will be

- a) 32
- b) 36
- c) 44
- d) 68

Ans: b

44. Castor angle is defined as the angle

- a) formed by the longitudinal axis of the aircraft and the direction of movement of the nose gear
- b) between the direction of wind and the longitudinal axis of the runway
- c) between the true speed of the aircraft and the crosswind component
- d) between the horizontal and the fuselage axis

Ans: a

45. The runway length after correcting for elevation and temperature is 2845 m. If the effective gradient on runway is 0.5 percent then the revised runway length will be

- a) 2845 m
- b) 2910 m
- c) 3030 m
- d) 3130 m

Ans: c

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