IAT 3 Railways, Harbours, Tunneling and Airports

1 Mark Questions

1. An area where an aircraft can land and take off, which may or may not be equipped with any navigational aids or markings25 / 25 correct responses

Value	Count
Aiport	0
✓ Airfield	25
Runway	0
Taxiway	0

2. Runways are numbered between25 / 25 correct responses

Value	Count
0- 36	0
✓ 1- 36	25
0 - 360	0
1- 360	0

3. What does this picture Indicate18 / 25 correct responses

Value	Count
Runway	6
✓ Taxiway`	18
Apron	1

4. Areas where the aircraft park25 / 25 correct responses

Value	Count
✓ Apron	25
Hanger	0
Terminal Buildings	0

5. Where are these lights placed25 / 25 correct responses

Value	Count
Runways	0
✓ Taxiways	25

Value	Count
Aprons	0
Hangers	0

6. What layout is this figure 25 / 25 correct responses

Value	Count
✓ Tangential	25
Intersecting	0
Triangular	0

7. What does this figure indicate 25 / 25 correct responses

Value	Count
Yaw	0
✓ Pitch	25
Roll	0

8. Piston Engine travels at a speed of 500- 800km/hr 25 / 25 correct responses

Value	Count
✓ True	25
False	0

2 Marks Questions

1. _____ are edged with white lights and _____ have blue lights 24 / 25 correct responses

Value	Count
Taxiways, Runways	1
✓ Runways, taxiways	24
Aprons and Taxiways	0

2. Speed has nothing to do with the planning of airport 11 / 25 correct responses

Value	Count
✓ True	11
False	14

3. Cooperation between airport managers & Local Government comes under _____ Factors in Socio- Economic Characteristics 25 / 25 correct responses

Value	Count
✓ Internal	25
External	0

4. Identify this picture 25 / 25 correct responses

Value	Count
✓ Wind rose diagram type 1	25
Wind rose diagram type 2	0

5. For airports with code letters A and B, ICAO recommends length of vertical curve as 30m for each 1% grade change. For airports with code letter C, D and E, ICAO recommended 17 / 25 correct responses

Value	Count
True	8
✓ False	17

6. Width of taxiway for C type Airport is _____ m 25 / 25 correct responses

Value	Count
10	0
✓ 15	25
20	0
25	0

7. This is extra wide area provided at the curves so that rear wheel does not go off the pavement edge. 23 / 25 correct responses

Value	Count
✓ Fillet	23
Chamfer	2
Wide parallel runway	0

8. The _____ is an area designed to prevent erosion of surfaces adjacent to the ends of the runways which are subjected to repeated jet blasts 22 / 25 correct responses

Value	Count
✓ Blast pad	22
Runway strip	3

9. ICAO recommendations for width of safety area: For non- instrumental runway - A,B,C,D and E= 150m. For instrumental runway using ILS = 300m. 22 / 25 correct responses

Value	Count
✓ True	22
False	3

10. % of time, in a year, during which the cross wind component remains within the limits as specified above is wind coverage. 24 / 25 correct responses

Value	Count
Cross wind	1
✓ Wind Coverage	24

3 Marks

1. What does this diagram show 23 / 25 correct responses

Value	Count
✓ Direction, Duration, Intensity	23
Direction, duration, inertia	1
Direction, coverage, Intensity	1

2. _____ method is adopted in terrains where the soil permits the roof of the tunnel section to stand without support for a few minutes 24 / 25 correct responses

Value	Count
✓ Needle Beam	24
Linear method	1

3. _____ is an old method of tunnelling through soft ground 22 / 25 correct responses

Value	Count
Needle beam	1
Linear method	1
✓ Forepoling	22
none of the above	1

4. A circular shape tunnel has the lowest cross-sectional area to perimeter ratio.20 / 25 correct responses

Value	Count
True	5
✓ False	20

5 Marks

1. Name them22 / 25 correct responses

Value	Count
open Arpon, Frontal, T shape, Y shape and straight	3
✓ Frontal, open apron, T shape, Y shape and straight	22
Frontal, open apron, Y shape, straight and T shape	0

Name the parts23 / 25 correct responses

Value	Count
Horizontal Stabilizer, Vertical Stabilizer, Trim tabs, rudder, elevator	1
✓ Horizontal Stabilizer, Vertical Stabilizer, rudder, Trim tabs, elevator	23
Horizontal Stabilizer, Vertical Stabilizer, rudder, elevator, Trim tabs,	1

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