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Continuing Education Course #523
Airport Engineering
Part VI - Heliport Design

1. Which document is governing for heliport design in the US?
 - a. AC 150/5130
 - b. Form 7480-1
 - c. AC 150/5100
 - d. AC 150/5390
 - e. Form 7460-1

2. Which of the following is an area of land, water, or structure for helicopter landings and takeoffs?
 - a. Helistop
 - b. Airport
 - c. Heliport
 - d. Helipad
 - e. Aerodrome

3. TLOF stands for...
 - a. Touchdown and Liftoff Area
 - b. Takeoff and Landing Over Facility
 - c. Tried Landing On Freeway
 - d. Takeoff and Landing Outer Fence
 - e. Tentative Landing Only Failed

4. FATO means Final Approach and Takeoff Area
 - a. False
 - b. True

5. All of the following except which are potential obstacles or hazards to helicopter traffic?
 - a. MRI machines
 - b. TLOF
 - c. Approaching aircraft
 - d. Radio antenna
 - e. Palm trees

6. What is the standoff distance between FATO center and runway for a heavy airplane (300,000+ lb) and a large helicopter (12,500+ lb)?
 - a. 300'
 - b. 500'
 - c. 600'

- d. 650'
 - e. 700'
7. Which of the following shapes is not acceptable for helipads?
- a. Circular
 - b. Square
 - c. Rectangular
 - d. Triangle
8. What is the ratio in terms of controlling dimension (D) for TLOF Width for a hospital?
- a. 1.50D
 - b. 1.66D
 - c. 1.66D but not less than 100'
 - d. 0.83D but not less than 40'
 - e. 0.34D
9. True or False: the overall length and controlling dimension of a Bell Helicopter 47G is 43.6'.
- a. True
 - b. False
10. Heliport dynamic loads are assumed to be what percentage of the helicopter takeoff weight?
- a. 150%
 - b. 100%
 - c. 200%
 - d. 300%
 - e. 125%
11. Acceptable helipad surface materials include all except which...:
- a. Concrete
 - b. Turf
 - c. Asphalt
 - d. Aggregate-turf
 - e. Masonry blocks
12. The maximum negative grade for TLOF surface is...
- a. 0.5%
 - b. 1.0%
 - c. 1.5%
 - d. 2.0%
 - e. 2.5%
13. Safety nets around an elevated Transport helipad should be designed to have a load carrying capability of ...
- a. 10 people
 - b. 25 PSF
 - c. 50 PSF
 - d. 100 PSF
 - e. 150 PSF
14. Which of the following upward slope is the approach/departure path from the edge of the FATO?
- a. 2:1
 - b. 3:1

- c. 8:1
- d. 10:1
- e. 20:1

15. What is the lateral separation between painted ground taxiway edge markings?

- a. 0.83D
- b. 1.25D
- c. 2 X UCW
- d. 1.67D
- e. 0.83 X UCW

16. What is the lateral separation between non-painted hover taxiway edge markings?

- a. 0.83D
- b. 1.25D
- c. 0.83D but not greater than 35'
- d. 1.67D
- e. 2 X UCW

17. Which maximum dimension is recommended for recessed tiedown depressions?

- a. Smallest wheel width
- b. Skid diameter
- c. Half the smallest wheel width
- d. Pilot's shoe width
- e. Fuel truck tire width

18. The number in the middle of the TDPC circle for Parking Position ID on paved, turn-around type area indicates what?

- a. Weight limitation
- b. Largest D
- c. Number of Passengers
- d. Taxiway ID
- e. Helipad ID

19. To indicate preferred approach/departure direction, a 1' wide bar is placed where on a helipad?

- a. Over the H
- b. Next to the H
- c. Around the helipad perimeter
- d. Near the TLOF
- e. Under the H

20. What is the standard TLOF marking height (Dimension "A") of the H on a helipad?

- a. 5'-0"
- b. 1'-0"
- c. 2'-0"
- d. 10'-0"
- e. 6'-8"

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