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Continuing Education Course #294
Drones for Engineers

1. Which drones have cameras that can see above level?
 - a. Albris
 - b. Matrice 210
 - c. Mavic Pro
 - d. all of the above

2. Bridge inspection by drone is suitable for:
 - a. Elements in poor condition
 - b. Fracture critical members
 - c. Routine inspections
 - d. Underwater components

3. No fly zones with or without traffic control towers are how far away?
 - a. one mile
 - b. 2 miles
 - c. 3 miles
 - d. 5 miles

4. Who is responsible for bridge load rating calculations?
 - a. the Team Leader
 - b. the Professional Engineer
 - c. neither
 - d. both

5. The MnDOT bridge inspection by a drone saves about what percent of a conventional inspection cost?
 - a. 10%
 - b. 30%
 - c. 50%
 - d. 80%

6. The safety enclosure of Flyability's Elios protects:
 - a. the drone
 - b. people
 - c. occupied vehicles
 - d. all of the above

7. A drone Forward Looking Infrared camera works as well as one hand held
 - a. True
 - b. False

8. HAZON Solutions drones inspected how many railroad bridges by mid 2017?

- a. 24
- b. 64
- c. 100+
- d. 100,000

9. The slate roof facing the reservoir water was best inspected by which intelligent flight mode?

- a. Active Track
- b. Point of Interest
- c. Home Lock
- d. Follow Terrain

10. How many USA dams are over 100 years old?

- a. 1000
- b. 3000
- c. 4000
- d. 5000

11. The Sensefly drone inspected how many solar panels in five minutes?

- a. 1000
- b. 3000
- c. 4000
- d. 5000

12. Drones carry flood lights to inspect the inside of a commercial boiler:

- a. True
- b. False

13. Drones can be electrically powered by

- a. Batteries
- b. Wire to the ground
- c. Neither
- d. Both

14. Boilers inspected by drones do not save:

- a. Repair work
- b. Scaffolding
- c. Cooling down costs
- d. Turnaround time

15. Offshore platform data is shared with:

- a. the Coast Guard
- b. Helicopter pilots
- c. Structural engineers
- d. Federal Aviation Administration

16. A drone inspecting a sewer system for leaks searches for:

- a. Infrared changes
- b. Odor detection
- c. Smoke
- d. Plumber's Dye

17. Damage pictures of roof shingles must be made public record.
- a. True
 - b. False
18. Hail damage pictures are broken into tiles measuring:
- a. 200 x 200 tiles
 - b. 200 x 300 tiles
 - c. 16 x 9 aspect ratio
 - d. 300 x 300 tiles
19. IBM's Watson cloud storage reduces computation time from three hours to:
- a. 10 minutes
 - b. 20 minutes
 - c. 30 minutes
 - d. one hour
20. Thermal imaging by a drone can detect underground:
- a. stone walls
 - b. ancient settlements
 - c. neither
 - d. both
21. If Rebar is inspected with ultra high definition pictures, what is that size?
- a. 1920 x 1080 pixels
 - b. 3840 x 2160 pixels
 - c. 960 x 720 pixels
 - d. 512 x 384 pixels
22. Which is not a Site scan mode?
- a. ReFly Previous
 - b. Crosshatch
 - c. Perimeter
 - d. Gesture
23. Contours by drone can be down to every:
- a. 10 feet
 - b. 2 feet
 - c. 5"
 - d. 1"
24. The FAA Part 107 test has how many questions?
- a. 10
 - b. 25
 - c. 60
 - d. 100
25. Which class of airspace is approved for drone flying:
- a. G
 - b. D
 - c. C
 - d. A

26. How late at night can a Part 107 pilot fly without anti-collision lights and testing?

- a. Until Sunset
- b. 10 minutes after sunset
- c. 20 minutes after sunset
- d. 30 minutes after sunset

27. If flying for recreation at no pay, a hobbyist must receive airspace authorization for airports within how many miles away?

- a. 15
- b. 5
- c. 10
- d. 20

28. Which intelligent flight mode repeats the previous flown or programmed mission?

- a. Tripod
- b. Waypoints
- c. Follow me
- d. Cinematic

29. Which ISO setting is best for a bright sunny cloudless day?

- a. 100
- b. 400
- c. 800
- d. 1600

30. How many minutes of 4k video can be stored on a 16 GB SD card?

- a. 16
- b. 32
- c. 48
- d. 100

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