Exam simulation

FAA Part 107 Drone Exam Prep - Loading and performance

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STUDENT NAME:	DATE AND TIME:

01. Federal Airways (Victor Airways) are generally Class E airspace. What are the vertical limits of a Federal Airway?

a) From the surface to 10,000 feet MSL.

b) 1,200 feet AGL up to, but not including, 18,000 feet MSL.

c) 700 feet AGL up to 14,500 feet MSL.

02. You are hired to film a major league baseball game at a stadium seating 35,000 people. Are you allowed to fly your drone over the stadium during the game?

a) Yes, as long as you stay 400 feet above the stadium.

b) No, a stadium TFR prohibits flights starting 1 hour before the event until 1 hour after.

c) Yes, if you obtain written permission from the stadium manager.

03. Under what conditions may you fly a drone over an open-air assembly of people?

a) If you fly higher than 400 feet AGL.

b) Only if the drone meets specific category requirements (e.g., Category 1, 2, 3) or you have a waiver.

c) If you announce your flight using a loudspeaker.

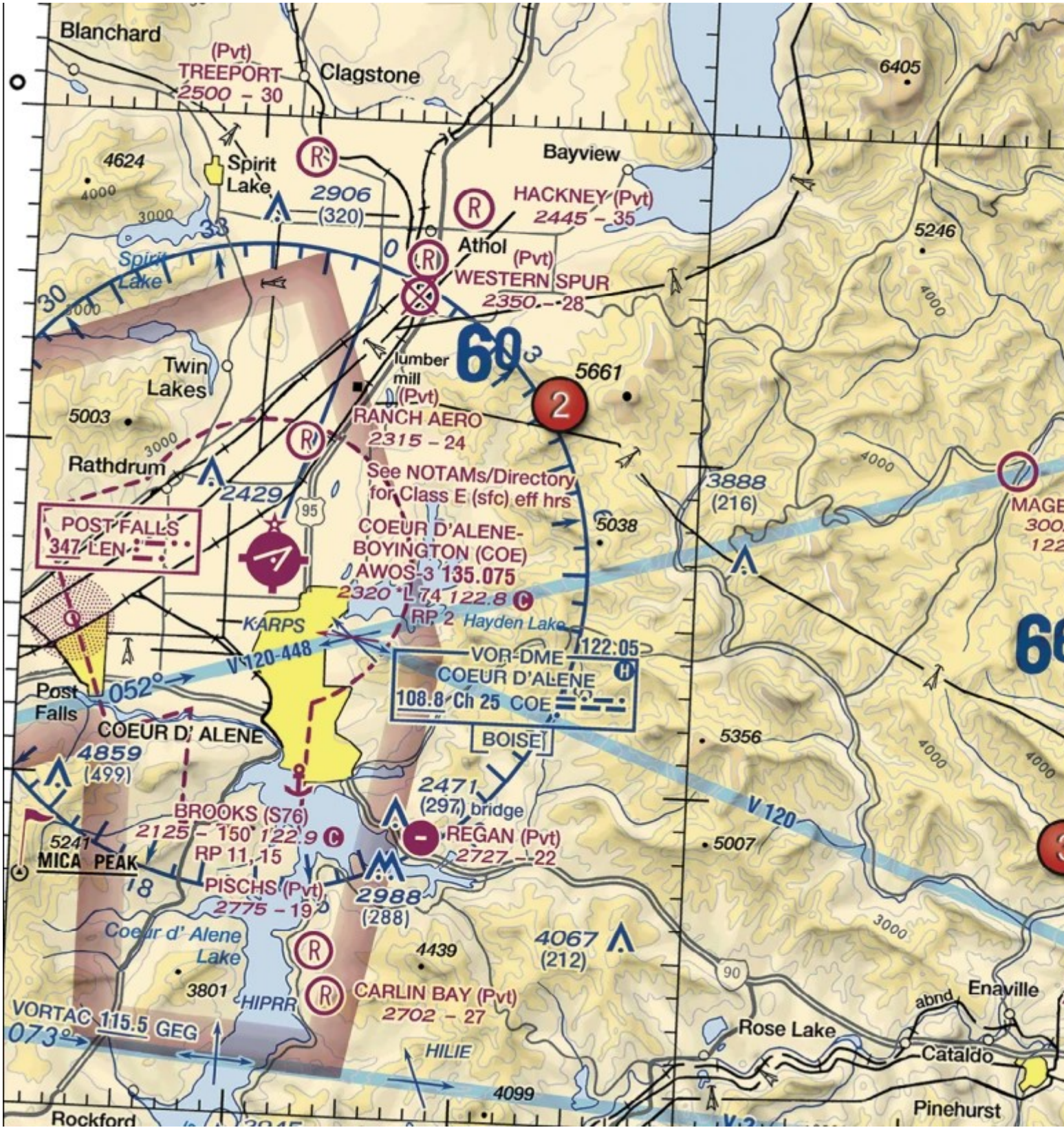
04. What does the abbreviation 'CB' mean when appended to a cloud layer in a METAR?

a) Cumulonimbus.

b) Clear below.

c) Cirrostratus broken.

05. At Coeur D'Alene which frequency should be used as a Common Traffic Advisory Frequency (CTAF



a) 122.05 MHz.

b) 122.8 MHz.

c) 135.075 MHz.

06. Where can you find specific information, such as active times and altitudes, for a Restricted Area shown on a sectional chart?

a) In the Chart Supplement (formerly Airport/Facility Directory).

b) On the FAA DroneZone website.

c) In the margin or legend of the sectional chart.

07. Can you carry hazardous materials on a small UAS under Part 107?

a) Yes, if securely fastened.

b) Yes, if you have a hazardous materials endorsement.

c) No, carrying hazardous materials is explicitly prohibited.

08. What is the relationship between induced drag and airspeed?

a) Induced drag increases as airspeed increases.

b) Induced drag decreases as airspeed increases.

c) Induced drag is unaffected by airspeed.

09. What kind of weather conditions are typically expected under a low-level temperature inversion when relative humidity is high?

a) Smooth air, poor visibility, fog, haze, or low clouds.

b) Turbulent air, excellent visibility, and thunderstorms.

c) High winds and heavy snow showers.

10. This sign is a visual clue that



a) warns the pilot of approaching taxiway "B."

b) confirms the aircraft's location to be on taxiway "B."

c) indicates "B" holding area is ahead.

11. If your drone loses communication link with the control station, this is known as a:

a) Flyaway.

b) Lost link.

c) System failure.

12. You are hired to take real estate photos. The property is located directly under the approach path of a nearby airport. What should you do?

a) Check the airspace classification and obtain authorization if it is controlled airspace.

b) Fly quickly to avoid incoming aircraft.

c) Fly only on weekends when traffic is lighter.

13. During a crash, the lithium battery in your UAV is dislodged from its compartment and is found on the ground, 5 feet from the aircraft. You notice a dent in the battery, what should you do?

a) Discard battery regardless of condition.

b) Assess the condition of the battery and cautiously proceed, following manufacturer's recommendations.

c) Perform a test flight to ensure that all items are working properly.

14. What are typical characteristics of unstable air?

a) Continuous, steady precipitation.

b) Good visibility and showery precipitation.

c) Fog and haze.

15. You had several drinks yesterday and are experiencing a hangover today. Even though the last drink was over 8 hours ago, would you still be allowed to conduct commercial drone flight operations today?

a) No, a hangover is a form of impairment from alcohol consumption.

b) Yes, as long as you are not in a drunken state, you are allowed to conduct UAV operations.

c) Yes, how you feel doesn't matter as much as meeting the 8-hour rule.

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16. What indicates the beginning of the dissipating stage of a thunderstorm?

a) Precipitation begins to fall.

b) Downdrafts spread throughout the cloud and cut off the updrafts.

c) The cloud develops an anvil top.

17. Where should a remote pilot look to find the official weight and balance limits for their specific small UAS?

a) 14 CFR Part 107 regulations.

b) The manufacturer's operating manual or Pilot's Operating Handbook (POH).

c) The FAA DroneZone website.

18. What does the abbreviation 'WS' indicate in a TAF?

a) Non-convective low-level wind shear.

b) Widespread smoke.

c) Water spouts.

19. You are looking at a sectional chart and see an airport symbol that is magenta colored. What does this typically mean regarding the presence of a control tower?

a) The airport has an operating control tower.

b) The airport does NOT have an operating control tower.

c) The airport is strictly for military use.

20. Can an air traffic controller at a local tower give you Part 107 airspace authorization over a VHF radio?

a) Yes, verbal authorization is preferred.

b) Yes, but only in Class D airspace.

c) No, Part 107 operators must use LAANC or the FAA DroneZone for authorization.

21. You are hired to inspect a cell tower located in Class G airspace. The tower is 500 feet tall. Can you legally fly above the tower?

a) No, you can never fly above 400 feet AGL.

b) Yes, you can fly up to 900 feet AGL (400 feet above the top of the 500-foot tower) while remaining within a 400-foot radius of the tower.

c) Yes, but you need ATC authorization because you are above 400 feet.

22. What type of weather is generally associated with a warm front?

a) Severe thunderstorms and tornadoes.

b) Stratiform clouds, steady precipitation, and poor visibility ahead of the front.

c) Rapidly dropping temperatures and clear skies.

23. You want to fly your sUAS over a National Wildlife Refuge. What is the FAA's requested minimum altitude for flying over these areas?

a) 2,000 feet AGL.

b) 500 feet AGL.

c) 400 feet AGL.

24. If the Center of Gravity (CG) is too far forward, how does it affect the flight characteristics of an aircraft?

a) It increases the maximum flight time.

b) It decreases the stalling speed.

c) It makes the aircraft nose-heavy, requiring more back-pressure or elevator trim to maintain level flight.

25. A pilot should be able to overcome the symptoms or avoid future occurrences of hyperventilation by

a) increasing the breathing rate in order to increase lung ventilation.

b) slowing the breathing rate, breathing into a bag, or talking aloud.

c) closely monitoring the flight instruments to control the airplane.

26. If your sUAS weighs 20 pounds and you execute a sudden pull-up maneuver that subjects the drone to a load factor of 3 Gs, what is the effective load the structure is bearing?

a) 20 pounds.

b) 60 pounds.

c) 3 pounds.

27. In a METAR report, temperature and dew point are reported in which scale?

a) Fahrenheit.

b) Kelvin.

c) Celsius.

28. The acronym IMSAFE is a personal checklist designed to help pilots:

a) Determine if the aircraft is airworthy.

b) Assess their own physical and mental fitness for flight.

c) Review emergency procedures before takeoff.

29. On a sectional chart, you see a number like [25] inside a dashed blue box. What does this represent?

a) The length of the runway is 2,500 feet.

b) The ceiling of the Class D airspace is 2,500 feet MSL.

c) The minimum safe altitude is 2,500 feet AGL.

30. When a pilot feels that they have no control over their situation and leaves the action to others, they are exhibiting which hazardous attitude?

a) Impulsivity.

b) Invulnerability.

c) Resignation.

31. Can an aircraft stall at any airspeed?

a) Yes, a stall can occur at any airspeed and any flight attitude if the critical angle of attack is exceeded.

b) No, an aircraft can only stall at its published stall speed.

c) No, an aircraft cannot stall if the throttle is at 100%.

32. Which statement about longitude and latitude is true?

a) The 0° line of latitude passes through Greenwich, England.

b) Lines of longitude cross the Equator at right angles.

c) Lines of longitude are parallel to the Equator.

33. One of the purposes for issuing a Temporary Flight restriction (TFR) is to

a) announce Parachute Jump Areas.

b) protect public figures.

c) identify Airport Advisory Areas.

34. What situation is most conducive to the formation of radiation fog?

a) The movement of cold air over much warmer water.

b) Moist, tropical air moving over cold, offshore water.

c) Warm, moist air over low, flatland areas on clear, calm nights.

35. What are the four forces that act on an aircraft in flight?

a) Lift, weight, thrust, and drag.

b) Lift, gravity, power, and friction.

c) Lift, weight, speed, and drag.

36. According to the Part 107 rules, operations of a drone from a moving vehicle is allowed only if this condition is satisfied:

a) It is done over a sparsely populated area.

b) It is done by a Part 107-licensed drone pilot.

c) The drone remains within visual line-of-sight.

37. You change your permanent mailing address. Within how many days must you update your address with the FAA?

a) 10 days.

b) 14 days.

c) 30 days.

38. What happens when you exceed the maximum takeoff weight (MTOW) specified by the sUAS manufacturer?

a) The drone will fly faster due to increased momentum.

b) Structural damage may occur, and flight performance will be severely compromised.

c) The FAA will automatically revoke your license.

39. What type of weather is generally associated with a low-pressure system?

a) Descending air, clear skies, and good visibility.

b) Calm winds and severe temperature inversions.

c) Rising air, cloudiness, and precipitation.

40. Responsibility for collision avoidance in an alert area rests with

a) all pilots.

b) the controlling agency.

c) Air Traffic Control.

41. What is the standard direction of turns in an airport traffic pattern?

a) Right-hand turns.

b) Left-hand turns.

c) It alternates depending on the wind direction.

42. What condition is necessary for structural icing to occur in flight?

a) Clear skies and a temperature inversion.

b) Flight through cirrus clouds.

c) The aircraft must be flying through visible moisture (like rain or clouds) and the temperature must be at or below freezing.

43. If you are flying a multirotor drone and push the pitch stick forward to fly horizontally, how does the drone achieve forward movement?

a) It tilts the lift vector forward, converting some of the vertical lift into forward thrust.

b) It slows down the front propellers and reverses the rear propellers.

c) It uses wind currents to carry it forward.

44. What is 'autokinesis'?

a) A sudden loss of orientation when flying in clouds.

b) The automatic stabilization system of the drone.

c) A visual illusion at night where a stationary light appears to move if stared at for several seconds.

45. What is the primary danger to a drone pilot when flying in an area with a strong temperature inversion?

a) The battery will overheat due to the rapidly rising air.

b) The drone will be pushed uncontrollably upward into controlled airspace.

c) Poor visibility due to trapped smoke, dust, and haze in the lower atmosphere, making VLOS difficult.

46. Before conducting any flight operation, the Remote PIC must:

a) File a flight plan with the nearest ATC facility.

b) Assess the operating environment and ensure the sUAS is safe for flight.

c) Notify local law enforcement.

47. A fixed-wing sUAS is loaded such that the CG is exactly on the aft limit. How will this affect the stall characteristics?

a) The stall will occur at a lower speed and recovery will be easier.

b) The aircraft may stall more easily, and stall recovery will be much more difficult or impossible.

c) It will have no effect on stall characteristics.

48. What causes variations in altimeter settings between weather reporting points?

a) Unequal heating of the Earth's surface.

b) Variation of terrain elevation.

c) Coriolis force.

49. Fatigue can be either acute (short-term) or chronic (long-term). Which is the best way to prevent acute fatigue?

a) Drinking caffeinated beverages.

b) Getting adequate rest and sleep.

c) Engaging in strenuous exercise before a flight.

50. What is 'induced drag'?

a) Drag that is inherently created as a byproduct of generating lift.

b) Drag caused by the physical shape of the aircraft flying through the air.

c) Drag caused by the friction of the air on the drone's skin.

51. As altitude increases, what happens to the true airspeed of a fixed-wing sUAS flying at a constant indicated airspeed?

a) True airspeed decreases.

b) True airspeed remains the same.

c) True airspeed increases because the air is less dense.

52. How are cloud bases reported in METARs and TAFs?

a) In thousands of feet MSL.

b) In hundreds of feet AGL.

c) In tens of feet MSL.

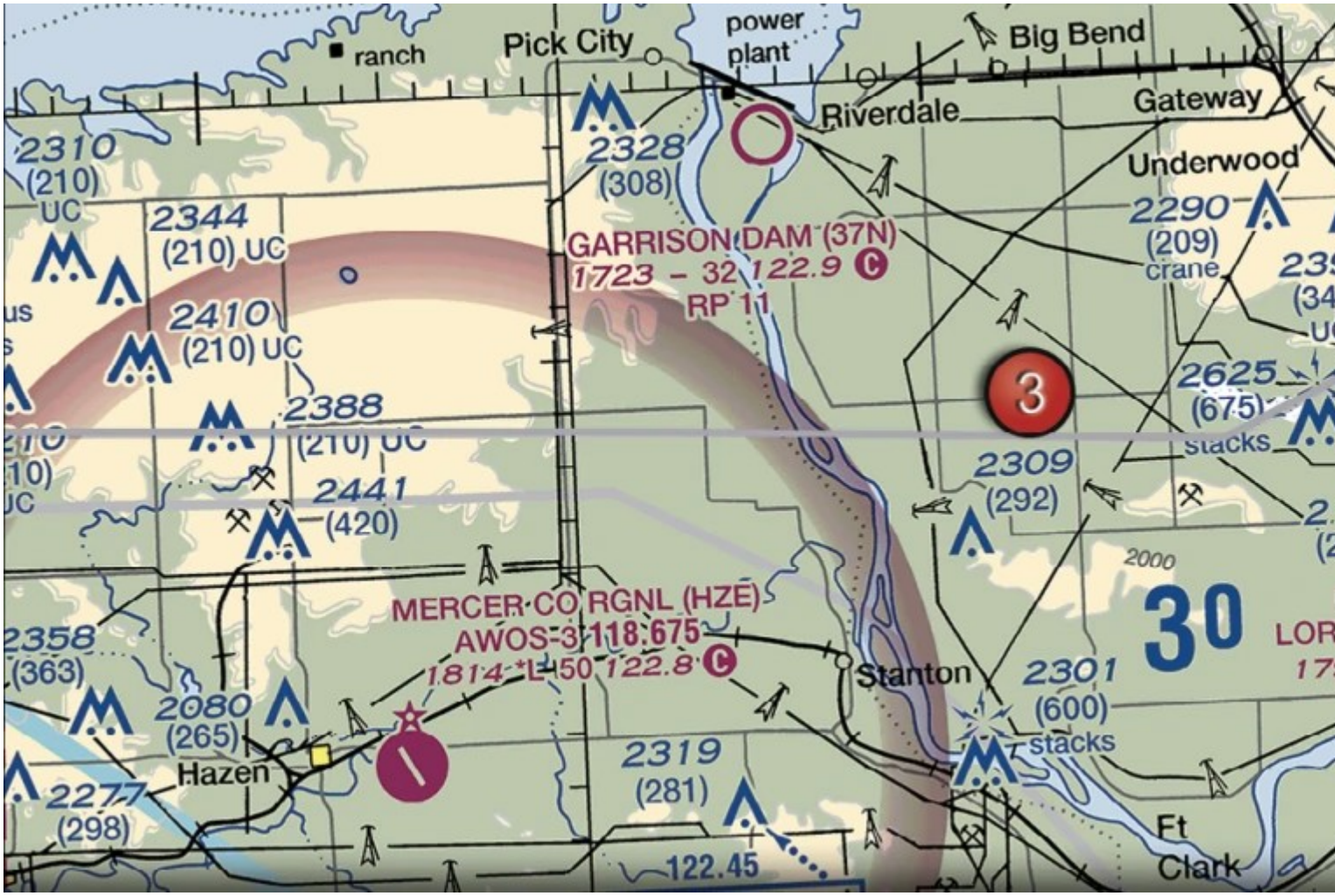
53. This is a type of hazardous attitude characterized by wanting to do everything quickly with no due consideration of safety measures and operational objectives.

a) Machismo.

b) Invulnerability.

c) Impulsivity.

54. What is the floor of the Class E airspace surrounding Mercer Co Rgnl (HZE)?



a) 700' MSL.

b) 750' AGL.

c) 2,514' MSL.

55. Which phase of flight is statistically the most dangerous and requires the highest level of vigilance?

a) Takeoff and landing.

b) Cruising at 400 feet.

c) Hovering in place.

56. How does an increased load factor affect the performance of a small UAS?

a) It increases the stall speed and requires more power to maintain altitude.

b) It decreases the stall speed and increases flight time.

c) It has no effect on performance.

57. What is required to operate a small UAS during civil twilight?

a) A special waiver from the FAA.

b) A visual observer.

c) Anti-collision lights visible for at least 3 statute miles.

58. According to today's weather forecast, there will be a ceiling at 700 feet. Knowing this, up to what altitude are you allowed to fly your drone?

a) 500 feet AGL.

b) 400 feet AGL.

c) 200 feet AGL.

59. While doing a commercial drone job, your drone gets into an accident and crashes. Which of the following outcomes are you NOT required to report to the FAA?

a) Damage to a car that will cost around $750 to repair.

b) A serious injury that requires the victim to be hospitalized.

c) A minor injury to a person that needs to be addressed with first aid.

60. Which is true regarding the effect of alcohol on the human body?

a) Consuming an equal amount of water will accelerate the metabolization of alcohol and help a person regain their normal senses in less than 8 hours.

b) Any amount of alcohol can affect a person's judgment and decision-making capacity.

c) A minimal amount of alcohol will have no effects on a person's situational awareness and ability to make decisions.

61. Which airspace is generally designated from the surface to 10,000 feet MSL surrounding the nation's busiest airports?

a) Class C airspace.

b) Class B airspace.

c) Class D airspace.

62. Why is frost considered hazardous to drone operations?

a) It adds immense weight to the aircraft, dragging it down.

b) It shorts out the electronic speed controllers.

c) It disrupts the smooth flow of air over the airfoil, decreasing lift and increasing drag.

63. In a TAF, what does the 'FM' (From) group indicate?

a) A gradual change in weather taking place over several hours.

b) Temporary fluctuations in weather.

c) A rapid and significant change in weather expected within less than an hour.

64. Unless otherwise specified, Federal Airways include that Class E airspace extending upward from

a) 700 feet above the surface up to and including 17,999 feet MSL.

b) 1,200 feet above the surface up to and including 17,999 feet MSL.

c) the surface up to and including 18,000 feet MSL.

65. If you see '+SN' in a METAR, what weather condition is occurring?

a) Light snow.

b) Blowing snow.

c) Heavy snow.

66. What does a 'broken' (BKN) cloud layer mean in a METAR report?

a) 1/8 to 2/8 of the sky is covered by clouds.

b) 3/8 to 4/8 of the sky is covered by clouds.

c) 5/8 to 7/8 of the sky is covered by clouds, which constitutes a ceiling.

67. One weather phenomenon which will always occur when flying across a front is a change in the

a) stability of the air mass.

b) type of precipitation.

c) wind direction.

68. How does frost form on an aircraft?

a) When water drops freeze upon striking the aircraft's surface.

b) When the temperature of the collecting surface is at or below the dew point of the adjacent air, and the dew point is below freezing.

c) When flying through supercooled water droplets.

69. What does 'VRB' mean in the wind group of a METAR report (e.g., VRB03KT)?

a) Visibility is reduced by blowing wind.

b) The wind direction is variable.

c) Visual flight rules are required.

70. What is the primary factor that causes fatigue, affecting a pilot's decision-making ability?

a) Eating heavy meals.

b) Lack of adequate sleep and prolonged periods of cognitive work.

c) Drinking too much water.

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Response Scheme

Compare your answers with the following diagram and mark your score!

01: **B**	02: **B**	03: **B**	04: **A**
05: **B**	06: **C**	07: **C**	08: **B**
09: **A**	10: **A**	11: **B**	12: **A**
13: **A**	14: **B**	15: **A**	16: **B**
17: **B**	18: **A**	19: **B**	20: **C**
21: **B**	22: **B**	23: **A**	24: **C**
25: **B**	26: **B**	27: **C**	28: **B**
29: **B**	30: **C**	31: **A**	32: **B**
33: **B**	34: **C**	35: **A**	36: **A**
37: **C**	38: **B**	39: **C**	40: **A**
41: **B**	42: **C**	43: **A**	44: **C**
45: **C**	46: **B**	47: **B**	48: **A**
49: **B**	50: **A**	51: **C**	52: **B**
53: **C**	54: **C**	55: **A**	56: **A**
57: **C**	58: **C**	59: **C**	60: **B**
61: **B**	62: **C**	63: **C**	64: **B**
65: **C**	66: **C**	67: **C**	68: **B**
69: **B**	70: **B**		

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Response form

Use this form to mark your answers

01:	02:	03:	04:
05:	06:	07:	08:
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