

# Exam simulation

FAA Part 107 Drone Quiz - Regulations



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STUDENT NAME:

DATE AND TIME:

**01. The CAUTION box denotes what hazard to aircraft?**

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- a) Unmarked blimp hangs at 300 feet MSL.
- b) Unmarked balloon on cable to 3,008 feet MSL.
- c) Unmarked balloon on cable to 3,008 feet AGL.

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**02. A lenticular cloud, which often looks like a flying saucer, is a strong indicator of:**

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- a) A high-pressure system forming.
- b) Approaching radiation fog.
- c) Mountain wave turbulence and high winds aloft.

**03. Which of the following is true regarding lithium polymer (LiPo) batteries used in most small UAS?**

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- a) They are highly flammable and can catch fire if punctured, overcharged, or exposed to extreme heat.
- b) They perform best when stored fully depleted.
- c) They are immune to temperature extremes.

**04. Katabatic winds are characterized by:**

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- a) Warm air rising up a mountain slope during the day.
- b) High-altitude jet streams dipping into the lower atmosphere.
- c) Cold, dense air flowing downhill into a valley, typically at night.

**05. The angle of attack is defined as the angle between the chord line of an airfoil and the:**

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- a) Pitch angle of the aircraft.
- b) Direction of the relative wind.
- c) Rotor plane of rotation.

**06. During a preflight inspection, you notice a small crack in one of the drone's propellers. What is the correct action?**

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- a) Apply strong glue to the crack and proceed with the flight.
- b) Fly the drone but avoid high-speed maneuvers.
- c) Discard the damaged propeller and replace it before flying.

**07. When may a remote pilot operate a small UAS from a moving watercraft?**

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- a) When the operation takes place over a sparsely populated area.
- b) When operating in Class B airspace.
- c) It is never permitted to operate from a moving watercraft.

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## 08. Overloading a small UAS will likely result in which of the following?

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- a) Increased flight time due to greater momentum.
- b) Increased maneuverability.
- c) Decreased climb rate, decreased maneuverability, and shorter battery life.

## 09. What is the ultimate goal of the Risk Management process?

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- a) To eliminate all risks, making flying 100% safe.
- b) To shift the legal liability to the client.
- c) To identify hazards, assess the degree of risk, and determine the best course of action to mitigate those risks to an acceptable level.

## 10. What is the minimum distance a small unmanned aircraft must remain below a cloud?

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- a) 500 feet.
- b) 1,000 feet.
- c) 2,000 feet.

## 11. When strapping a new, heavy camera to your drone, how should you position it in relation to the aircraft's Center of Gravity (CG)?

---

- a) As far forward as possible to prevent flipping backward.
- b) As close to the original Center of Gravity as possible to maintain balance.
- c) As far aft as possible.

## 12. Under Part 107, can a remote PIC operate an sUAS that has an expired registration?

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- a) Yes, there is a 30-day grace period.
- b) Yes, if the drone is only being flown recreationally.
- c) No, the sUAS must be currently registered.

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

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- a) True airspeed decreases.
- b) True airspeed remains the same.
- c) True airspeed increases because the air is less dense.

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

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- a) Machismo.
- b) Invulnerability.
- c) Impulsivity.

**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?**

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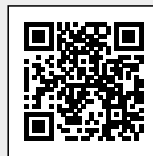
- a) No, a hangover is a form of impairment from alcohol consumption.
- b) Yes, as long as you are not in a drunken state, you are allowed to conduct UAV operations.
- c) Yes, how you feel doesn't matter as much as meeting the 8-hour rule.

**16. Of what value is the Weather Depiction Chart to the pilot?**

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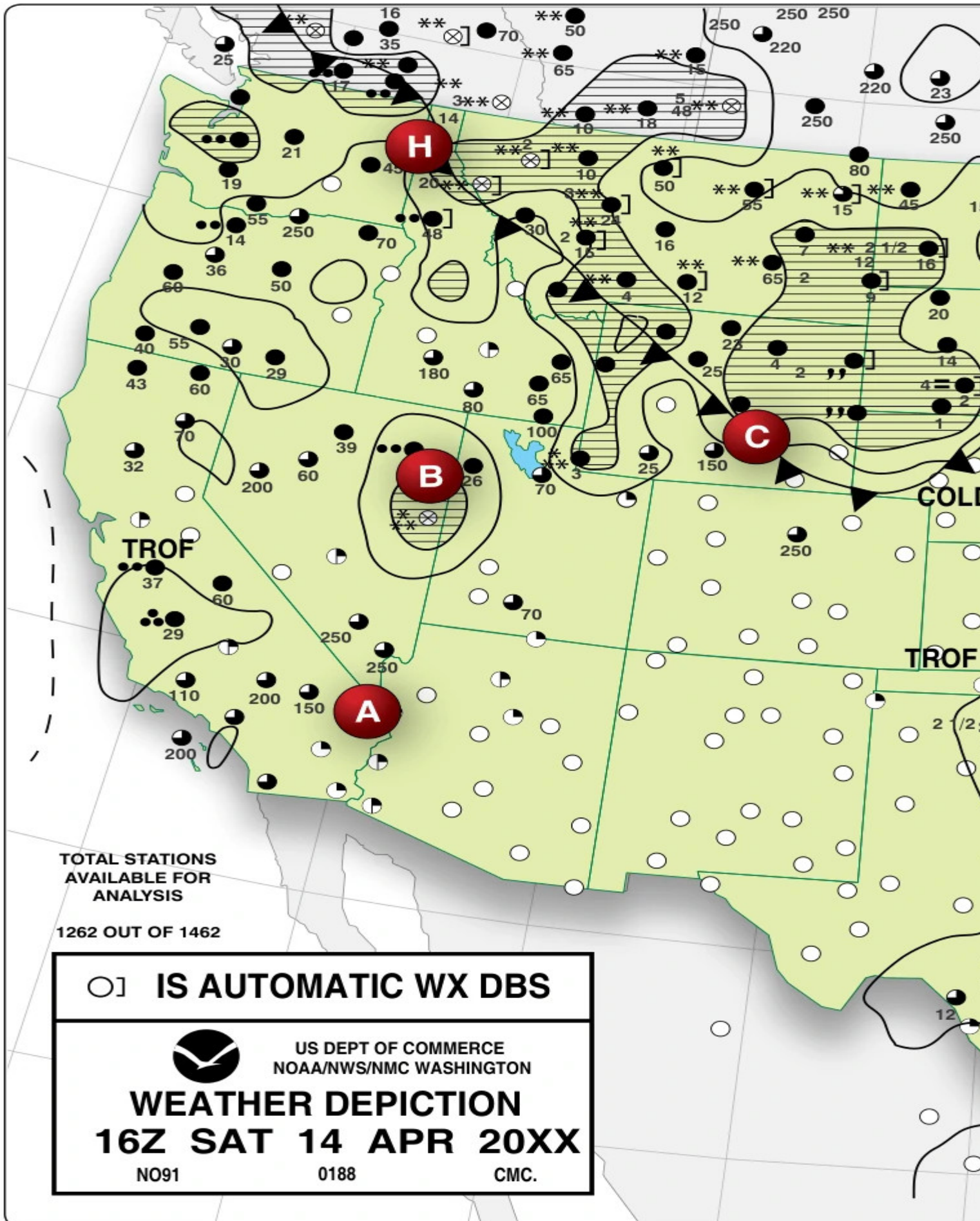
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- a) For determining frontal trends and air mass characteristics.
- b) For determining general weather conditions on which to base flight planning.
- c) For a forecast of cloud coverage, visibilities, and frontal activity.

**17. The term "angle of attack" is defined as the angle between the**

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- a) airplane's longitudinal axis and that of the air striking the airfoil.
- b) airplane's centerline and the relative wind.
- c) chord line of the wing and the relative wind.

**18. While inspecting a 500-foot tower in Class G airspace, you fly up to 900 feet AGL (within the 400-foot radius). The Class E airspace at this location begins at 700 feet AGL. Do you need ATC authorization?**

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- a) No, Part 107 authorization is only required for Class B, C, D, and surface-area Class E designated for an airport.
- b) Yes, because you entered Class E airspace.
- c) Yes, any flight above 700 feet requires authorization.

**19. Civil twilight in the contiguous United States is defined as:**

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- a) 30 minutes before official sunrise and 30 minutes after official sunset.
- b) 60 minutes before official sunrise and 60 minutes after official sunset.
- c) The time between 6:00 AM and 6:00 PM.

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

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- a) Class C airspace.
- b) Class B airspace.
- c) Class D airspace.

**21. How long is a Federal Aviation Administration (FAA) sUAS Certificate of Registration valid?**

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- a) 12 months.
- b) 24 months.
- c) 36 months.

**22. What is the purpose of a Common Traffic Advisory Frequency (CTAF)?**

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- a) For remote PICs to communicate with one another during flight operations.
- b) For manned aircraft pilots to self-announce their positions in and around non-towered airports.
- c) For ATC to monitor all uncontrolled airspace.

**23. According to 14 CFR Part 107, what is the maximum blood alcohol concentration (BAC) allowable to operate an sUAS?**

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- a) 0.04 percent.
- b) 0.08 percent.
- c) 0.00 percent.

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24. In the TAF from KOKC, the "FM (FROM) Group" is forecast for the hours from 1600Z to 2200Z with the wind from

```
TAF
KMEM 121720Z 1218/1324 20012KT 5SM HZ BKN030 PROB40 2022 1SM TSRA OVC008CB
FM2200 33015G20KT P6SM BKN015 OVC025 PROB40 2202 3SM SHRA
FM0200 35012KT OVC008 PROB40 0205 2SM-RASN BECMG 0608 02008KT BKN012
BECMG 1310/1312 00000KT 3SM BR SKC TEMPO 1212/1214 1/2SM FG
FM131600 VRB06KT P6SM SKC=
KOKC 051130Z 0512/0618 14008KT 5SM BR BKN030 TEMPO 0513/0516 1 1/2SM BR
FM051600 18010KT P6SM SKC BECMG 0522/0524 20013G20KT 4SM SHRA OVC020
PROB40 0600/0606 2SM TSRA OVC008CB BECMG 0606/0608 21015KT P6SM SCT040=
```

- a) 160° at 10 knots.
- b) 180° at 10 knots.
- c) 180° at 10 knots, becoming 200° at 13 knots.

25. 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.

26. What is the primary function of a Controlled Firing Area (CFA)?

- a) Activities are suspended immediately when spotter aircraft, radar, or ground lookout positions indicate an aircraft might be approaching.
- b) It requires all aircraft to maintain two-way radio communication with the controlling agency.
- c) It restricts all civilian flight below 10,000 feet MSL.

27. What is the standard temperature lapse rate with increasing altitude?

- a) 1 °C per 1,000 feet.
- b) 2 °C per 1,000 feet.
- c) 3 °C per 1,000 feet.

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**28. Since drones cannot fly above 400 feet AGL (without being near a structure), how does the 2,000-foot AGL requested minimum altitude over National Wildlife Refuges affect drone pilots?**

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- a) Drone pilots must apply for a waiver to fly at 2,000 feet.
- b) Drone pilots should generally avoid operating over these areas to comply with the requested minimum.
- c) The rule only applies to manned aircraft; drones are exempt.

**29. When you submit a LAANC request, you can submit it**

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- a) over the phone with the control tower.
- b) through the FAA's DroneZone website.
- c) through any of the approved LAANC UAS Service Suppliers (USS's).

**30. How often does the drone pilot need to inspect their drone to ensure that it is in good working condition?**

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- a) Monthly.
- b) Before each flight.
- c) Daily.

**31. If the visual observer (VO) loses sight of the sUAS, what should they do?**

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- a) Use binoculars to find it.
- b) Immediately inform the Remote PIC so they can safely bring the aircraft back into visual line of sight.
- c) Wait quietly until it reappears.

**32. Fog that forms on clear, calm, cool nights over flat, low-lying areas is known as:**

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- a) Advection fog.
- b) Radiation fog.
- c) Upslope fog.

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

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- a) Lift, weight, thrust, and drag.
- b) Lift, gravity, power, and friction.
- c) Lift, weight, speed, and drag.

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**34. What are the three stages of a thunderstorm?**

---

- a) Formation, precipitation, and dissipation.
- b) Updraft, downdraft, and static.
- c) Cumulus, mature, and dissipating.

**35. The Coriolis force deflects winds to the \_\_\_\_\_ in the Northern Hemisphere.**

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- a) Right.
- b) Left.
- c) South.

**36. If you see a faded magenta band on a sectional chart, what does it indicate about the Class E airspace?**

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- a) Class E airspace begins at the surface.
- b) Class E airspace begins at 700 feet AGL.
- c) Class E airspace begins at 1,200 feet AGL.

**37. Which of the following would be considered a 'sparsely populated' area for the purpose of flying from a moving vehicle?**

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- a) A suburban residential neighborhood.
- b) A public park during a sports event.
- c) An empty stretch of agricultural farmland.

**38. What is the antidote for the hazardous attitude of 'Resignation'?**

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- a) Not so fast. Think first.
- b) I am not helpless. I can make a difference.
- c) Taking chances is foolish.

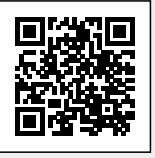
**39. Do you need ATC authorization to fly your sUAS in Class G airspace?**

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- a) No, prior authorization is not required.
- b) Yes, if flying within 5 miles of an airport.
- c) Yes, ATC authorization is always required.

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**40. On a sectional chart, what does a solid blue line indicate?**

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- a) Class C airspace.
- b) Class B airspace.
- c) Class D airspace.

**41. In a TAF, what does the code 'WS010/31050KT' mean?**

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- a) Weather system at 1,000 feet moving 310 degrees at 50 knots.
- b) Wind storm warning: 10 miles visibility, winds 310 at 50 knots.
- c) Non-convective low-level wind shear at 1,000 feet, wind from 310 degrees at 50 knots.

**42. In meteorology, what is a 'front'?**

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- a) The center of a high-pressure system.
- b) The boundary layer between two distinct air masses of different temperatures and densities.
- c) The leading edge of a microburst.

**43. The distance an aircraft travels over the ground is affected by the wind. If your drone flies at 30 knots indicated airspeed into a 10-knot headwind, what is the approximate ground speed?**

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- a) 20 knots.
- b) 30 knots.
- c) 40 knots.

**44. An air mass that resists vertical movement is considered:**

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- a) Unstable.
- b) Convective.
- c) Stable.

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

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- a) Takeoff and landing.
- b) Cruising at 400 feet.
- c) Hovering in place.

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**46. You have been hired to drop promotional flyers from your drone during a festival. Under Part 107, dropping items from an sUAS is:**

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- a) Prohibited under all circumstances.
- b) Allowed, provided the items do not create a hazard to persons or property.
- c) Allowed only if the flyers weigh less than 1 ounce.

**47. Wind direction reported in a METAR is provided in reference to:**

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- a) True North.
- b) Magnetic North.
- c) The aircraft's heading.

**48. What is the antidote when a pilot has a hazardous attitude, such as "Invulnerability"?**

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- a) It will not happen to me.
- b) It can not be that bad.
- c) It could happen to me.

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49. In a sectional chart, two airports are enclosed by blue broken lines, as pointed out by the blue arrows in the figure. What do these blue broken lines indicate?



- a) Class D airspace starting at the surface.
- b) Class E airspace starting at 400 feet.
- c) Class D airspace starting at 1200 feet.

50. 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.

51. 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.

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**52. What does a 'P' followed by a number (e.g., P-40) indicate on a sectional chart?**

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- a) A Parachute jump area.
- b) A Prohibited Area.
- c) A Private airport.

**53. What weather chart provides a graphical overview of surface weather systems such as fronts, high and low-pressure centers?**

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- a) Weather Depiction Chart.
- b) Radar Summary Chart.
- c) Surface Analysis Chart.

**54. How does extreme cold weather affect a lithium polymer (LiPo) battery?**

---

- a) It increases the battery's capacity and extends flight time.
- b) It increases internal resistance, resulting in a significant reduction in capacity and shorter flight times.
- c) It has no effect on the battery's performance.

**55. What causes the wind to blow?**

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- a) The rotation of the Earth.
- b) Ocean currents.
- c) Differences in atmospheric pressure.

**56. What happens to the stall speed of an aircraft during a banked turn?**

---

- a) The stall speed increases as the bank angle increases.
- b) The stall speed decreases as the bank angle increases.
- c) The stall speed remains the same regardless of bank angle.

**57. What is the purpose of MULTICOM?**

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- a) It is used by ATC to control ground traffic.
- b) It provides automated weather at uncontrolled fields.
- c) It is a frequency (usually 122.9 MHz) used for self-announce procedures at airports without a tower, FSS, or UNICOM.

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## 58. A 'flyaway' occurs when:

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- a) The pilot intentionally flies the drone beyond visual line of sight.
- b) The drone experiences a lost link and does not follow its pre-programmed fail-safe routine, flying unpredictably.
- c) The wind pushes the drone faster than its maximum speed.

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

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- 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.

## 60. What airspace is generally designated from 18,000 feet MSL up to and including FL 600?

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- a) Class B airspace.
- b) Class C airspace.
- c) Class A airspace.

## 61. During a preflight inspection, you notice your LiPo battery is slightly swollen or puffy. What should you do?

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- a) Use it for short flights only.
- b) Compress it gently to flatten it out before flying.
- c) Do not fly with it, safely discharge it, and dispose of it properly, as it poses a severe fire risk.

## 62. While checking out your planned area of operations on a sectional chart, you notice that gray arrows nearby labeled "VR1667" and "VR1668." Do these symbols represent a hazard to your operations?

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- a) No, these only indicate the groundspeed of aircraft passing by the area.
- b) Yes, these indicate military exercises at below 1500 feet AGL.
- c) No, these indicate military exercises at above 1500 feet AGL.

## 63. Under Part 107, can you operate multiple small UAS simultaneously from one control station?

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- a) Yes, up to three drones at a time.
- b) No, unless you have been granted a specific waiver by the FAA.
- c) Yes, as long as you have a visual observer for each drone.

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## 64. How can dehydration affect a remote pilot's performance?

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- a) It can cause fatigue, dizziness, and a decrease in cognitive function and decision-making ability.
- b) It only affects pilots flying at high altitudes in manned aircraft.
- c) It improves visual acuity.

## 65. What is 'induced drag'?

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- 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.

## 66. Which of the following is a characteristic of a stable air mass?

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- a) Good visibility and showery precipitation.
- b) Stratiform clouds and smooth air.
- c) Cumulus clouds and turbulence.

## 67. What is a characteristic of stable air?

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- a) Unlimited visibility.
- b) Stratiform clouds.
- c) Cumulus clouds.

## 68. You are checking LAANC for authorization to fly in Class C airspace. The grid you want to fly in shows a '0'. What does this mean?

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- a) Auto-approval is not available; you must apply for further coordination via DroneZone or a LAANC USS.
- b) Flight is strictly prohibited and no authorization will ever be granted.
- c) You can fly up to 400 feet, as the 0 means no manned aircraft are present.

## 69. What is AWOS?

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- a) Automated Weather Observing System.
- b) Aviation Weather Outlook Service.
- c) Automated Wind and Overcast System.

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**70. A temperature inversion would most likely result in which weather condition?**

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- a) Clouds with extensive vertical development above an inversion aloft.
- b) Good visibility in the lower levels of the atmosphere and poor visibility above an inversion aloft.
- c) An increase in temperature as altitude is increased.

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## Response Scheme

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

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

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## Response form

Use this form to mark your answers

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