

# Exam simulation

FAA Part 107 Drone Exam Prep - Meteorology



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STUDENT NAME:

DATE AND TIME:

## 01. What effect does haze have on the ability to see traffic or terrain features during flight?

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- a) All traffic or terrain features appear to be farther away than their actual distance.
- b) Haze causes the eyes to focus at infinity.
- c) The eyes tend to overwork in haze and do not detect relative movement easily.

## 02. How often are standard TAFs generally issued?

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- a) Every hour.
- b) Four times a day (every 6 hours).
- c) Twice a day (every 12 hours).

## 03. If your sUAS experiences a flyaway and is heading toward controlled airspace, what should you do?

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- a) Wait to see if it returns automatically.
- b) Report it to the FAA within 10 days.
- c) Immediately notify the appropriate ATC facility to advise them of the emergency and the drone's last known location and heading.

## 04. Which of the following describes the 'Person Manipulating the Controls' under Part 107?

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- a) They must always hold a Part 107 certificate.
- b) A person controlling the flight of an sUAS under the direct supervision of the Remote PIC.
- c) The visual observer when they hold the radio.

## 05. When an aircraft is in straight-and-level, unaccelerated flight, which forces are equal?

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- a) Lift equals drag and thrust equals weight.
- b) Lift equals weight and thrust equals drag.
- c) Lift equals thrust and weight equals drag.

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## 06. What signals the beginning of the mature stage of a thunderstorm?

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- a) Precipitation falling to the surface.
- b) The formation of an anvil cloud top.
- c) The cessation of lightning.

## 07. 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.

## 08. What is the legal status of recreational drone flying under the Exception for Limited Recreational Operations?

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- a) It requires taking the TRUST test, but does not require a Part 107 certificate.
- b) It is completely unregulated.
- c) It requires a Part 107 certificate.

## 09. What does LAANC stand for?

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- a) Low Altitude Authorization and Notification Capability.
- b) Local Area Airspace Navigation Control.
- c) Low Altitude Aviation Network Communication.

## 10. How does extreme cold weather affect a lithium polymer (LiPo) battery?

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- 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.

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**11. Which type of front is typically associated with a narrow band of active weather, such as heavy rain or thunderstorms, because it acts like a snowplow pushing warm air violently upward?**

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- a) A cold front.
- b) A warm front.
- c) An occluded front.

**12. In a TAF, a 'TEMPO' group indicates temporary fluctuations in weather. How long do these fluctuations usually last?**

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- a) Usually less than an hour, and in total less than half the time period specified.
- b) Exactly two hours.
- c) More than half of the entire forecast period.

**13. What does a SIGMET (Significant Meteorological Information) advise pilots about?**

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- a) Non-convective weather that is potentially hazardous to all aircraft, such as severe icing, severe turbulence, or dust storms.
- b) Weather conditions that are only hazardous to small, single-engine aircraft.
- c) Routine forecasted weather at an aerodrome.

**14. If you are flying your sUAS and observe a sudden wind shift from a steady southerly breeze to a gusty northwest wind, accompanied by a drop in temperature, what has likely passed?**

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- a) A cold front.
- b) A warm front.
- c) A high-pressure center.

**15. At what altitude does wind shear occur?**

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- a) Below 5,000 feet AGL.
- b) Above 20,000 feet MSL.
- c) At any altitude.

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## 16. Low-level turbulence can occur and icing can become hazardous in which type of fog?

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- a) Upslope fog.
- b) Steam fog.
- c) Rain-induced fog.

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

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- 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.

## 18. What kind of airspace is depicted on a sectional chart by a hatched blue area?

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- a) Restricted, Prohibited, or Warning Area.
- b) Class C airspace.
- c) Military Operations Area (MOA).

## 19. Crew Resource Management (CRM) is defined as the effective use of:

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- a) Only the hardware and software systems on board the aircraft.
- b) ATC personnel and ground crews exclusively.
- c) All available resources—human, hardware, and information—to ensure a safe operation.

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

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- 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.

## 21. The visual observer (VO) must:

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- a) Hold a Part 107 certificate.
- b) Be able to see the aircraft with their own eyes without the use of binoculars or cameras.
- c) Stand exactly next to the Remote PIC at all times.

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**22. 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?**

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- 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.

**23. If a Military Training Route (MTR) has a 4-digit number (e.g., VR1207), it means that flights on that route are conducted at:**

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- a) Altitudes at or below 1,500 feet AGL.
- b) Altitudes above 1,500 feet AGL.
- c) Supersonic speeds only.

**24. 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?**

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- 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.

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

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

**26. What is the antidote for the hazardous attitude of 'Anti-Authority'?**

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- a) It could happen to me.
- b) Follow the rules. They are usually right.
- c) Not so fast. Think first.

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**27. A National Security Area (NSA) is depicted by a thick, dashed magenta line. What are the rules for flying an sUAS in an NSA?**

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- a) Pilots are requested to voluntarily avoid flying through the NSA, but it may be temporarily prohibited by a NOTAM.
- b) Flight is permanently prohibited under all circumstances.
- c) Authorization must be requested via LAANC.

**28. What is the maximum altitude you can fly your drone above the ground (AGL) if you are NOT flying over a structure?**

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- a) 500 feet.
- b) 400 feet.
- c) 1,200 feet.

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

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- a) 2,000 feet AGL.
- b) 500 feet AGL.
- c) 400 feet AGL.

**30. When computing weight and balance, the 'datum' is:**

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- a) An imaginary vertical plane or line from which all measurements of arm are taken.
- b) The exact center of the propeller hub.
- c) The total weight of the aircraft empty.

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

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

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## 32. What combination of atmospheric factors produces the highest density altitude?

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- a) Low elevation, low temperature, and low humidity.
- b) High elevation, low temperature, and high humidity.
- c) High elevation, high temperature, and high humidity.

## 33. Under what condition can you operate a drone in a Restricted Area?

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- a) It is never allowed under any circumstances.
- b) If you have permission from the controlling agency.
- c) If you are flying purely for recreational purposes.

## 34. What is a microburst?

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- a) A small tornado.
- b) A localized, severe downdraft of air that spreads outward in all directions when it hits the ground.
- c) A sudden drop in barometric pressure.

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

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- 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.

## 36. What does the outbound destination sign identify?

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- a) Identifies runway on which an aircraft is located.
- b) Identifies direction to take-off runways.
- c) Identifies entrance to the runway from a taxiway.

## 37. What is the minimum age for a person to be eligible to receive the Part 107 remote pilot certificate?

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- a) 18.
- b) 21.
- c) 16.

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## 38. In weight and balance terminology, what is an 'arm'?

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- a) The structural boom holding the motor.
- b) The horizontal distance in inches from the reference datum line to the center of gravity of an item.
- c) The total lifting force of one propeller.

## 39. What kind of airspace is depicted on a sectional chart by a hatched magenta area?

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- a) Restricted Area.
- b) Military Operations Area (MOA).
- c) Warning Area.

## 40. Can a remote PIC fly an sUAS in a Military Operations Area (MOA)?

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- a) Yes, but extreme caution should be exercised.
- b) No, MOAs are strictly prohibited for civil UAS.
- c) Yes, but only if the PIC holds a special security clearance.

## 41. During a flight, the drone battery catches fire and destroys the drone, but causes no other damage. Do you need to report this to the FAA?

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- a) No, damage to the drone itself does not require reporting.
- b) Yes, all fires must be reported within 10 days.
- c) Yes, because the cost of the drone exceeds \$500.

## 42. 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.

## 43. If you are flying in an area where the elevation is 4,000 feet MSL, and you fly your drone 400 feet above the ground, what is your MSL altitude?

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- a) 400 feet MSL.
- b) 4,400 feet MSL.
- c) 3,600 feet MSL.

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## 44. Sea breezes are caused by:

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- a) The fact that land heats faster than water during the day, causing air to rise over the land and cooler air from the water to flow in.
- b) The rotation of the Earth pulling ocean currents inland.
- c) The fact that water heats faster than land during the day.

## 45. A manned aircraft announces they are on the 'downwind leg' for Runway 18. This means the aircraft is flying parallel to the runway in which direction?

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- a) South.
- b) East.
- c) North.

## 46. You are flying a fixed-wing drone. If you double the airspeed, what happens to the parasite drag?

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- a) It doubles.
- b) It quadruples.
- c) It remains the same.

## 47. To avoid a possible collision with a manned airplane, you estimate that your small UA climbed to an altitude greater than 600 feet AGL. To whom must you report the deviation?

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- a) Air Traffic Control.
- b) The Federal Aviation Administration, upon request.
- c) The National Transportation Safety Board.

## 48. 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?

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- 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.

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**49. Conversely, if an airport symbol on a sectional chart is blue, what does it signify?**

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- a) The airport has an operating control tower.
- b) The airport does NOT have an operating control tower.
- c) The airport has water landing areas only.

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**50. Which combination of atmospheric conditions will result in the most optimal propeller efficiency?**

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- a) Low temperature, low relative humidity, low density altitude.
- b) High temperature, low relative humidity, high density altitude.
- c) High temperature, high relative humidity, low density altitude.

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**51. What visual cue can a remote pilot use to anticipate the presence of a microburst?**

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- a) A perfectly clear, blue sky.
- b) A rain shaft descending from a thunderstorm, especially if the rain evaporates before hitting the ground (virga), combined with a ring of blowing dust at the surface.
- c) A layer of flat, low-lying stratus clouds.

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**52. What is the recommended procedure for a remote pilot when a manned aircraft is spotted flying low in the vicinity?**

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- a) Maintain your altitude and turn on anti-collision lights.
- b) Climb above the manned aircraft to ensure separation.
- c) Immediately descend and yield the right-of-way.

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**53. During a 60-degree banked level turn, what is the approximate load factor (G-force) exerted on the aircraft?**

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- a) 1.5 Gs.
- b) 1.0 G.
- c) 2.0 Gs.

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**54. If an employer asks a remote PIC to fly a mission that violates Part 107 rules, who is ultimately held responsible by the FAA?**

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- a) The employer.
- b) The remote PIC.
- c) Both the employer and the visual observer.

**55. 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.

**56. The lateral dimensions of Class D airspace are based on**

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- a) the instrument procedures for which the controlled airspace is established.
- b) the number of airports that lie within the Class D airspace.
- c) 5 statute miles from the geographical center of the primary airport.

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

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- a) 10 days.
- b) 14 days.
- c) 30 days.

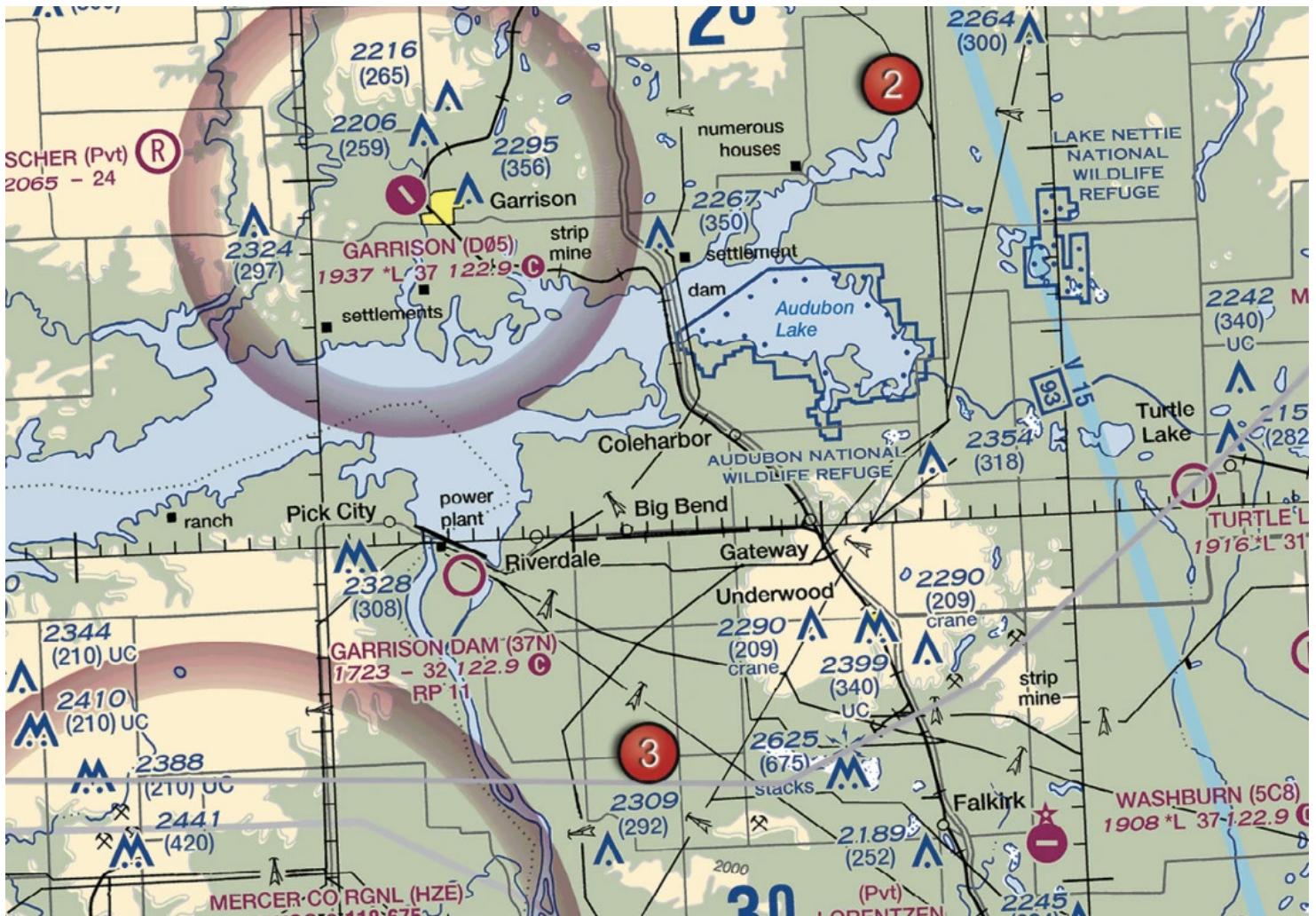
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**58. When flying over Arrowwood National Wildlife Refuge, a pilot should fly no lower than**



- a) 3,000 feet AGL.
- b) 2,000 feet AGL.
- c) 2,500 feet AGL.

**59. If a pilot takes an over-the-counter medication that causes drowsiness, what is the proper action?**

- a) Do not fly until the medication has completely cleared from the body and the condition has resolved.
- b) Fly only if the operation is strictly for recreational purposes.
- c) Fly, but use a visual observer to compensate for the drowsiness.

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**60. 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.

**61. A Temporary Flight Restriction (TFR) applies to:**

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- a) Only manned aircraft.
- b) Only unmanned aircraft.
- c) All aircraft, including sUAS, unless specific exemptions are granted.

**62. How does high density altitude affect the performance of a small UAS?**

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- a) It improves performance because the air is less dense.
- b) It decreases performance due to reduced propeller efficiency and reduced aerodynamic lift.
- c) It increases the efficiency of the battery.

**63. Can a Part 107 remote pilot operate an sUAS in Class A airspace?**

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- a) Yes, with ATC authorization.
- b) Yes, if the drone is IFR equipped.
- c) No, sUAS operations are limited to a maximum of 400 feet AGL (or 400 feet above a structure), well below Class A.

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

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- a) Drinking caffeinated beverages.
- b) Getting adequate rest and sleep.
- c) Engaging in strenuous exercise before a flight.

**65. 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.

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**66. Which type of weather briefing is provided when the information requested is 6 or more hours in advance of the proposed departure time?**

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- a) An Outlook briefing.
- b) A Standard briefing.
- c) An Abbreviated briefing.

**67. If your drone crashes into a person and causes a laceration that requires stitches, when must you report it to the FAA?**

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- a) Within 10 calendar days, because it is a serious injury.
- b) Within 30 calendar days.
- c) No report is required if the person does not press charges.

**68. If you are flying your drone using FPV (First Person View) goggles, what is required by Part 107?**

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- a) You must have a visual observer keeping an unaided visual line of sight on the aircraft.
- b) You must fly under 100 feet AGL.
- c) FPV is completely prohibited for commercial operations.

**69. In the METAR 'SPECI KMDW 121856Z 32005KT 1 1/2SM RA OVC007 17/16 A2980', what does 'SPECI' indicate?**

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- a) A specified terminal forecast.
- b) A special unscheduled observation indicating a significant change in weather.
- c) A special restricted airspace notice.

**70. What is 'Pressure Altitude'?**

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- a) The altitude read on an altimeter when set to the local barometric pressure.
- b) The altitude indicated when the barometric pressure scale is set to 29.92 inches of mercury (Hg).
- c) The actual physical height of the aircraft above mean sea level.

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## Response Scheme

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

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

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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: _____		