

# Exam simulation

FAA Part 107 Drone Quiz, 60 questions on 120 minutes!



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STUDENT NAME:

DATE AND TIME:

## 01. What is a 'squall line'?

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- a) A line of low-level temperature inversions.
- b) A non-frontal, narrow band of active thunderstorms that often develop ahead of a cold front.
- c) A continuous band of radiation fog.

## 02. 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.

## 03. Which of the following types of operations are excluded from the requirements in part 107?

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- a) UAS used for motion picture filming.
- b) Quadcopter capturing aerial imagery for crop monitoring.
- c) Model aircraft for hobby use.

## 04. Why does a drone require more power to hover at 10,000 feet MSL than it does at sea level?

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- a) Because the force of gravity is significantly stronger at higher altitudes.
- b) Because the air is less dense at high altitudes, requiring the propellers to spin faster to generate the same amount of lift.
- c) Because the air is colder, which creates more aerodynamic drag.

## 05. 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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## 06. 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.

## 07. Ice pellets encountered at the surface are an indication that:

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- a) A thunderstorm is directly overhead.
- b) The air mass is stable with no turbulence.
- c) There is a temperature inversion with freezing rain at a higher altitude.

## 08. 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.

## 09. 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.

## 10. Which aircraft characteristic is most negatively affected by an increase in density altitude?

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- a) Maximum speed.
- b) Radio range.
- c) Climb performance and overall lift generation.

## 11. 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.

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

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- 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.

## 13. In a METAR report, what does the abbreviation 'BR' stand for?

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- a) Mist.
- b) Broken clouds.
- c) Blowing rain.

## 14. 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.

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

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- a) Cumulonimbus.
- b) Clear below.
- c) Cirrostratus broken.

## 16. On a sectional chart, how is Class C airspace depicted?

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- a) By solid magenta lines.
- b) By dashed magenta lines.
- c) By solid blue lines.

## 17. 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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**18. You see a magenta flag icon on a sectional chart. What does this represent?**

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- a) A hospital heliport.
- b) A temporary flight restriction area.
- c) A Visual Flight Rules (VFR) reporting point.

**19. 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.

**20. What illusion is created when a pilot flies over a featureless terrain (like a calm lake or snow-covered field)?**

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- a) The pilot may think the aircraft is higher than it actually is.
- b) The pilot may think the aircraft is flying faster than it actually is.
- c) The pilot may experience autokinesis.

**21. 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.

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

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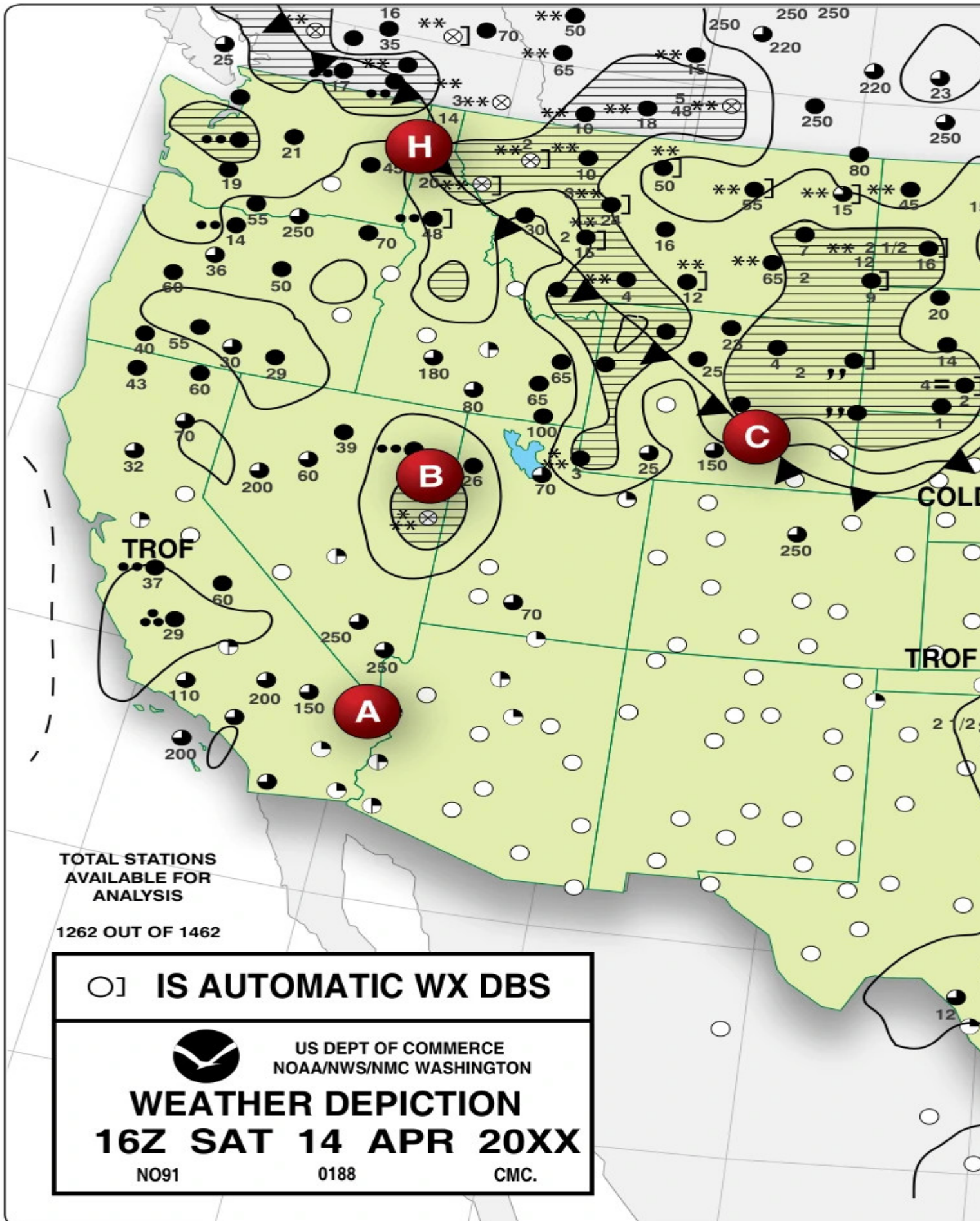
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- a) For determining frontal trends and air mass characteristics.
- b) For determining general weather conditions on which to base flight planning.
- c) For a forecast of cloud coverage, visibilities, and frontal activity.

**23. 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.

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## 24. Under what condition will the air become fully saturated?

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- a) When the temperature drops to equal the dew point.
- b) When the barometric pressure drops below 29.92 Hg.
- c) When the temperature rises significantly above the dew point.

## 25. If you are inspecting a 200-foot-tall communications tower, what is the maximum altitude you can legally fly above the top of the tower?

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- a) 400 feet above the tower's uppermost limit.
- b) 200 feet above the tower's uppermost limit.
- c) You cannot fly above 400 feet AGL regardless of the structure.

## 26. 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.

## 27. If a remote PIC needs to fly a drone in Class B airspace for a commercial job tomorrow, but LAANC is not available for that specific area, what should they do?

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- a) Call the airport tower and ask for verbal permission.
- b) Fly anyway, as long as they stay below 100 feet AGL.
- c) Submit an airspace authorization request through the FAA DroneZone portal, understanding it may take days or weeks to process.

## 28. Which of the following is a key element of effective Crew Resource Management (CRM)?

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- a) Clear communication and encouraging team members to speak up about safety concerns.
- b) The Remote PIC making all decisions without consulting the crew.
- c) Relying entirely on the automated systems of the drone.

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

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- a) Yes, if securely fastened.
- b) Yes, if you have a hazardous materials endorsement.
- c) No, carrying hazardous materials is explicitly prohibited.

## 30. What action should a remote PIC take to maintain the safety of the airspace if they spot a manned aircraft approaching their operating area?

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- a) Yield the right-of-way and safely maneuver the sUAS away from the manned aircraft.
- b) Maintain altitude and speed, as manned aircraft must avoid drones.
- c) Turn on anti-collision lights to warn the manned aircraft.

## 31. 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?

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- 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.

## 32. Which weather conditions should a remote pilot consider primarily because they severely degrade lithium battery performance?

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- a) Sub-freezing temperatures.
- b) High humidity.
- c) High temperatures.

## 33. The best way to mitigate the risk of a lipo battery fire during transport is to:

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- a) Store and transport batteries in fire-resistant 'LiPo bags' and ensure they are protected from short circuits.
- b) Keep them fully charged so they are stable.
- c) Wrap them tightly in aluminum foil.

## 34. 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.

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**35. 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.

**36. 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.

**37. 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.

**38. 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.

**39. What is the best way to keep track of a drone's maintenance history, battery cycles, and component replacements?**

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- a) Maintain a detailed logbook for the drone and its batteries.
- b) Rely on the drone's internal app memory.
- c) Report all maintenance to the FAA via DroneZone.

**40. When using a small UAS in a commercial operation, who is responsible for briefing the participants about emergency procedures?**

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- a) The visual observer.
- b) The remote Pilot in Command (PIC).
- c) The FAA inspector.

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## 41. In meteorology, what is a 'front'?

- 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.

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## 42. When flying a drone at a construction site, what is a specific operational hazard you should brief your crew about?

- a) Magnetic interference from heavy machinery, cranes, and shifting obstacles.
- b) Sudden drops in density altitude.
- c) Birds nesting in the area.

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

- 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.

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## 44. While operating your sUAS to do aerial photography you have a flyaway that causes \$700 worth of property damage. Within how many days must you report this accident?

- a) 30 days.
- b) 10 days.
- c) You are not required to report this unless requested.

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## 45. A small UAS must remain close enough to the remote PIC or visual observer to be capable of seeing the aircraft with vision unaided by any device other than corrective lenses. This is known as:

- a) Visual Line of Sight (VLOS).
- b) First Person View (FPV).
- c) Beyond Visual Line of Sight (BVLOS).

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

- 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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**47. What does the abbreviation 'WS' indicate in a TAF?**

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- a) Non-convective low-level wind shear.
- b) Widespread smoke.
- c) Water spouts.

**48. 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.

**49. The "runway hold position" sign denotes**

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- a) an area protected for an aircraft approaching a runway.
- b) an entrance to runway from a taxiway.
- c) intersecting runways.

**50. When the air temperature and dew point converge and are within 3°C (5°F) of each other, what weather condition is highly likely to form?**

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- a) Fog or low clouds.
- b) Thunderstorms.
- c) High winds and severe clear skies.

**51. This methodology or principle is what drone pilots should exercise to anticipate potential hazards and enact preventive or mitigating measures.**

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- a) Safety Management System.
- b) Risk Management.
- c) Crew Resource Management.

**52. Can a person who does not hold a Part 107 Remote Pilot Certificate operate a drone for commercial purposes?**

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- a) Yes, if they are under the direct supervision of a certified Remote PIC who can take immediate control.
- b) Yes, as long as they pass a background check.
- c) No, it is strictly prohibited.

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**53. Responsibility for collision avoidance in an alert area rests with**

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- a) all pilots.
- b) the controlling agency.
- c) Air Traffic Control.

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**54. 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.

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**55. 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.

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**56. Are Controlled Firing Areas (CFAs) charted on sectional aeronautical charts?**

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- a) Yes, they are marked with solid magenta lines.
- b) No, because their activities are suspended when an aircraft approaches, they do not require charting.
- c) Yes, they are marked with hatched blue lines.

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**57. What is the purpose of an Alert Area?**

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- a) To alert pilots to military live-fire exercises.
- b) To inform nonparticipating pilots of areas that may contain a high volume of pilot training or an unusual type of aerial activity.
- c) To notify pilots of presidential movements.

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**58. The conditions necessary for the formation of cumulonimbus clouds are a lifting action and**

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- a) unstable, moist air.
- b) either stable or unstable air.
- c) unstable air containing an excess of condensation nuclei.

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## 59. What is the expected duration of an individual microburst?

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- a) Up to an hour.
- b) Between 30 and 45 minutes.
- c) Seldom longer than 15 minutes from the time it strikes the ground until dissipation.

## 60. 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.

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## Response Scheme

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

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