

Exam simulation

FAA Part 107 Drone Quiz - Operations



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STUDENT NAME:

DATE AND TIME:

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

- 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.

02. Why is 'clear ice' generally considered the most dangerous type of structural icing?

- a) Because it only forms at extremely high altitudes out of drone range.
- b) Because it is heavy, hard to see, alters the shape of the airfoil, and is difficult to remove.
- c) Because it creates an electromagnetic field that disrupts the drone's compass.

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

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

04. How long are standard TAFs usually valid?

- a) 12 hours.
- b) 48 hours.
- c) 24 or 30 hours.

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

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

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06. What is a recommended practice when flying a small UAS in very cold temperatures?

- a) Keep the batteries in a warm environment (like a heated car or inside your jacket) until immediately before the flight.
- b) Pre-chill the batteries outside to acclimate them to the weather.
- c) Discharge the battery to 50% before flying to prevent freezing.

07. You want to fly your drone in Class D airspace. What must you do?

- a) Contact the control tower via two-way radio.
- b) Obtain prior authorization from the FAA (e.g., via LAANC).
- c) Nothing, drones are exempt from Class D rules if flown under 400 feet.

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

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

09. 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.

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

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

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

- 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.

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12. Dew point is defined as the:

- a) Temperature at which water freezes.
- b) Temperature to which air must be cooled to become fully saturated with moisture.
- c) Point at which atmospheric pressure drops below standard.

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

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

14. What is a characteristic of stable air?

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

15. The Coriolis force deflects winds to the _____ in the Northern Hemisphere.

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

16. A small UA must be operated in a manner which

- a) requires more than one visual observer.
- b) does not endanger the life or property of another.
- c) never exceeds 200 feet AGL.

17. What is the defining characteristic of wind shear?

- a) Continuous, steady winds exceeding 30 knots.
- b) A sudden, drastic change in wind speed and/or direction over a very short distance.
- c) Winds that only occur above 10,000 feet MSL.

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18. 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?

- 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.

19. You are at dinner with a client and enjoy a glass of wine, after dinner, your client asks you to demonstrate some maneuvers with your small UAS. Under Part 107, would this be allowed?

- a) No, remote pilots must wait a minimum of 8 hours after consuming any alcohol before conducting flight operations.
- b) Yes, one glass of wine is below the minimum threshold for alcohol consumption.
- c) Yes, as long as the remote PIC determines that his or her judgement or flight abilities are not impaired.

20. When monitoring the radio, you hear a pilot state: 'Cessna 123AB, left base runway 36, midwest traffic'. The aircraft is:

- a) Preparing to make a left turn onto the final approach for a North-facing runway.
- b) Departing a North-facing runway.
- c) Landing on a West-facing runway.

21. On a sectional chart, what does a dashed blue line indicate?

- a) Class E airspace starting at the surface.
- b) Class C airspace.
- c) Class D airspace.

22. 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.

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23. 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.

24. Fog that forms when warm, moist air is blown horizontally over a cold surface is called:

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

25. 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.

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

- 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.

27. What does the outbound destination sign identify?

- 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.

28. To ensure that the unmanned aircraft center of gravity (CG) limits are not exceeded, follow the aircraft loading instructions specified in the:

- a) Aeronautical Information Manual (AIM).
- b) Pilot's Operating Handbook or UAS Flight Manual.
- c) Aircraft Weight and Balance Handbook.

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

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

30. 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?

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

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31. What is the CTAF frequency at Garrison (D05)?



- a) 118.675.
- b) 122.9.
- c) 193.7.

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32. When flying a drone, how does high humidity specifically impact flight performance?

- a) It improves performance because water particles make the air heavier and denser.
- b) It decreases performance slightly because moist air is less dense than dry air.
- c) It has absolutely no effect on aerodynamics or engine performance.

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

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

34. Are remote pilots allowed to fly a small UAS in a Prohibited Area?

- a) Yes, with ATC authorization.
- b) Yes, if flying under 400 feet AGL.
- c) No, flights are prohibited for national security or other reasons.

35. 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?

- 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.

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

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

37. 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.

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

- 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.

39. Katabatic winds are characterized by:

- 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.

40. What does LAANC stand for?

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

41. What are typical characteristics of unstable air?

- a) Continuous, steady precipitation.
- b) Good visibility and showery precipitation.
- c) Fog and haze.

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

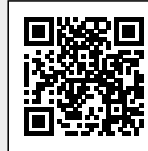
- a) Drinking caffeinated beverages.
- b) Getting adequate rest and sleep.
- c) Engaging in strenuous exercise before a flight.

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

- 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.

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44. Under what condition will the air become fully saturated?

- 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.

45. What is a Terminal Aerodrome Forecast (TAF)?

- a) A report of current weather conditions at an airport.
- b) A concise statement of the expected meteorological conditions at an airport during a specified period.
- c) A warning of severe weather en route.

46. When a control tower located on an airport within Class D airspace ceases operation for the day, what happens to the airspace?

- a) The airspace reverts to Class E or a combination of Class E and G airspace.
- b) The airspace remains Class D airspace.
- c) The airspace becomes a Restricted Area.

47. Which of the following describes an 'Outlook Briefing' from a Flight Service Station?

- a) A briefing provided when the planned departure is 6 or more hours away.
- b) A brief update of weather information from a previous briefing.
- c) The most complete and comprehensive weather briefing available.

48. When can a remote PIC fly a drone at night?

- a) If the drone has any type of LED lights.
- b) If the drone is equipped with anti-collision lights visible for 3 SM and the PIC has completed updated training/testing.
- c) Only with a specific nighttime waiver from the FAA.

49. What is the purpose of MULTICOM?

- 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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50. Which of the following describes a cold front?

- a) A mass of warm air replacing a mass of cold air.
- b) Two air masses colliding and remaining stationary.
- c) A mass of cold, dense, and stable air advancing and replacing a body of warmer air.

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

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

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

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

53. A pilot experiencing the effects of hyperventilation should be able to restore the proper carbon dioxide level in the body by

- a) slowing the breathing rate, breathing into a paper bag, or talking aloud.
- b) breathing spontaneously and deeply or gaining mental control of the situation.
- c) increasing the breathing rate in order to increase lung ventilation.

54. What is 'load factor' in aviation?

- a) The total weight of the aircraft including its payload.
- b) The ratio of the total load supported by the aircraft's wings/rotors to the actual weight of the aircraft and its contents.
- c) The amount of drag generated by the payload.

55. How long does a typical microburst usually last?

- a) Seldom longer than 15 minutes.
- b) Up to 1 hour.
- c) Between 1 and 3 hours.

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56. 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.

57. What type of weather is generally associated with a high-pressure system?

- a) Descending air, clear skies, and generally good weather.
- b) Continuous rain and low ceilings.
- c) Tornadoes and microbursts.

58. 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%.

59. 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.

60. Why is it important to understand the difference between AGL (Above Ground Level) and MSL (Mean Sea Level) when reading sectional charts?

- a) Because airspace boundaries and obstacles on sectional charts are usually listed in MSL, while drone flight limits are usually in AGL.
- b) Because drones do not use MSL for any calculations.
- c) Because MSL is only used over the ocean.

61. Within how many days must a remote pilot report an sUAS accident to the FAA if it results in serious injury?

- a) 5 days.
- b) 10 days.
- c) 30 days.

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62. Standard sea level temperature is:

- a) 15°C (59°F).
- b) 10°C (50°F).
- c) 20°C (68°F).

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

- 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.

64. In aviation meteorology, a 'ceiling' is defined as the height above the Earth's surface of the:

- a) Highest layer of clouds reported as scattered.
- b) Lowest layer of clouds reported as scattered or broken.
- c) Lowest layer of clouds or obscuring phenomena that is reported as 'broken', 'overcast', or 'obscuration'.

65. What is the purpose of an Alert Area?

- 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.

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

- 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.

67. What is the minimum visibility where drone operations are permitted?

- a) 3 statute miles.
- b) 4 statute miles.
- c) 2 statute miles.

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68. Thunderstorms require three elements to form: high moisture, an unstable lapse rate (instability), and:

- a) High barometric pressure.
- b) A lifting force (such as heating from below or a frontal boundary).
- c) A strong temperature inversion.

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

- a) Light snow.
- b) Blowing snow.
- c) Heavy snow.

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

- 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.

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Response Scheme

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

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