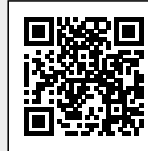


Exam simulation

FAA Part 107 Drone Quiz - Airspace Classification



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STUDENT NAME:

DATE AND TIME:

01. If you are flying a drone in an area with a high density altitude, you can expect your drone's propellers to:

- a) Be more efficient because there is less air friction.
- b) Be less efficient because the air is 'thinner' and provides less bite.
- c) Generate exactly the same amount of thrust as at sea level.

02. What effect does high density altitude, as compared to low density altitude, have on propeller efficiency and why?

- a) Efficiency is reduced because the propeller exerts less force at high density altitudes than at low density altitudes.
- b) Efficiency is increased due to less friction on the propeller blades.
- c) Efficiency is reduced due to the increased force of the propeller in the thinner air.

03. How often are standard TAFs generally issued?

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

04. In a METAR, what does the sky cover code 'OVC015' indicate?

- a) Overcast sky at 1,500 feet AGL.
- b) Overcast sky at 15,000 feet MSL.
- c) Overcast sky at 150 feet AGL.

05. 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.

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06. What is the financial threshold for property damage that requires reporting an accident to the FAA?

- a) Over \$300.
- b) Over \$500.
- c) Over \$1,000.

07. A 'flyaway' occurs when:

- 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.

08. The purpose of calculating weight and balance before flight is to ensure:

- a) The drone looks aesthetically balanced for photography.
- b) The payload is heavy enough to resist strong winds.
- c) The aircraft remains within its structural and aerodynamic limits for safe control.

09. 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.

10. Before every flight, who is responsible for determining that the sUAS is properly loaded and within its weight and balance limits?

- a) The manufacturer.
- b) The owner of the aircraft.
- c) The Remote Pilot in Command (PIC).

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

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

Exam simulation

FAA Part 107 Drone Quiz - Airspace Classification



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

- 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.

13. 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?

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

14. 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.

15. What is the most dangerous characteristic of a microburst?

- a) A powerful downdraft that can reach up to 6,000 feet per minute, followed by severe wind shear.
- b) Hail stones larger than 2 inches in diameter.
- c) A sudden and dramatic drop in temperature.

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

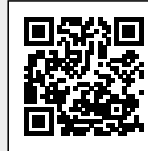
- a) Clouds with extensive vertical development above an inversion aloft.
- b) Good visibility in the lower levels of the atmosphere and poor visibility above an inversion aloft.
- c) An increase in temperature as altitude is increased.

17. 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.

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

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

19. 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.

20. What is the wind speed and direction indicated in the TAF for Memphis International Airport (KMEM) reported at 1720Z?

```
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) Wind source from the northwest, 20 knots.
- b) Wind source from southeast, 8 knots.
- c) Wind source from the south-southwest, 12 knots.

21. 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.

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22. 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?

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

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

- 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.

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

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

25. 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.

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26. What is the floor of controlled airspace around Sandpoint airport?



- a) 2,831 feet MSL.
- b) 2,131 feet AGL.
- c) 700 feet MSL.

27. 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.

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28. Runway numbers are determined by:

- a) The length of the runway in hundreds of feet.
- b) The true heading of the runway.
- c) The magnetic heading of the runway, rounded to the nearest 10 degrees and dropping the last zero.

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

- 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.

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

- 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.

31. 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.

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

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

33. 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.

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FAA Part 107 Drone Quiz - Airspace Classification



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34. In weight and balance calculations, 'moment' is defined as:

- a) Weight multiplied by the arm.
- b) Weight divided by the arm.
- c) The total duration of the flight.

35. Which aircraft has the right-of-way over all other air traffic?

- a) An aircraft in distress.
- b) A commercial airliner.
- c) A military jet.

36. 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.

37. If the altimeter setting at your local airport drops rapidly from 29.92 to 29.50, what kind of weather system is likely approaching?

- a) A low-pressure system, which typically brings cloudy, unsettled weather and precipitation.
- b) A high-pressure system, which brings clear skies.
- c) A massive temperature inversion.

38. 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.

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

- a) Flyaway.
- b) Lost link.
- c) System failure.

Exam simulation

FAA Part 107 Drone Quiz - Airspace Classification



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

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

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

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

42. What hazard is typically found in a Warning Area?

- a) High volume of commercial airline traffic.
- b) Glider and parachute operations.
- c) Activity that may be hazardous to nonparticipating aircraft, usually over domestic or international waters.

43. You are operating a drone weighing 4 pounds. It accidentally hits a person on a bicycle, causing a concussion and requiring them to stay overnight in the hospital. Must you report this?

- a) Yes, because it resulted in a serious injury.
- b) No, because the drone weighs less than 5 pounds.
- c) No, only property damage is reported.

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

- 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.

45. In Class C airspace, the altitude limits are typically displayed as a fraction, such as 40 over SFC. What does this mean?

- a) The airspace extends from the surface to 4,000 feet MSL.
- b) The airspace extends from the surface to 40,000 feet MSL.
- c) The airspace has a minimum speed limit of 40 knots at the surface.

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FAA Part 107 Drone Quiz - Airspace Classification



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46. 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.

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

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

48. It is 7:00 am. Official sunrise is at 7:40 am. Your UAV does not have any anti-collision lighting. How long do you need to wait before you can fly under Part 107?

- a) 40 minutes.
- b) 10 minutes.
- c) 70 minutes.

49. A resource you can use to find out detailed information about the effects of alcohol and legal and illegal drugs is

- a) NOTAMs.
- b) a Pilot's Operating Handbook.
- c) the PHAK (Pilot's Handbook of Aeronautical Knowledge).

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

- 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.

51. If you see a faded blue band on a sectional chart, what does it indicate about the airspace?

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

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FAA Part 107 Drone Quiz - Airspace Classification



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52. If an unmanned aircraft weighs 30 pounds, what approximate weight would the structure be required to support during a 60-degree banked turn while maintaining altitude?

- a) 30 pounds.
- b) 60 pounds.
- c) 45 pounds.

53. Fog that forms when cold, dry air moves over relatively warm water is called:

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

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

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

55. How are Temporary Flight Restrictions (TFRs) disseminated to the aviation community?

- a) Via Sectional Aeronautical Charts.
- b) Through local television broadcasts.
- c) Via Notice to Air Missions (NOTAMs).

56. You are flying a drone that weighs 54 pounds. The payload you want to add weighs 2 pounds. Can you fly this drone under Part 107?

- a) Yes, as long as the payload is securely attached.
- b) Yes, Part 107 covers drones up to 100 pounds.
- c) No, the total takeoff weight must be less than 55 pounds.

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

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

Exam simulation

FAA Part 107 Drone Quiz - Airspace Classification



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58. 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.

59. 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.

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

- 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.

61. 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.

62. 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.

63. What conditions are necessary for the formation of thunderstorms?

- a) Lifting force, moist air, and extensive cloud cover.
- b) High humidity, high temperature, and cumulus clouds.
- c) High humidity, lifting force, and unstable conditions.

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FAA Part 107 Drone Quiz - Airspace Classification



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64. 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.

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

- 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.

66. 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.

67. A systematic approach to preflight planning should always include:

- a) Only checking the weather and the drone's battery level.
- b) Checking weather, airspace, terrain, crew fitness, and performing a thorough inspection of the aircraft.
- c) Applying for a waiver for every flight.

68. 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.

69. According to 14 CFR part 107, the responsibility to inspect the small UAS to ensure it is in a safe operating condition rests with the

- a) visual observer.
- b) remote pilot-in-command.
- c) owner of the small UAS.

Exam simulation

FAA Part 107 Drone Quiz - Airspace Classification



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70. Standard sea level pressure is:

- a) 28.92 inches of mercury (Hg).
- b) 30.00 inches of mercury (Hg).
- c) 29.92 inches of mercury (Hg).

Exam simulation

FAA Part 107 Drone Quiz - Airspace Classification



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Response Scheme

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

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

Exam simulation

FAA Part 107 Drone Quiz - Airspace Classification



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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: _____ |
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| 49: _____ | 50: _____ | 51: _____ | 52: _____ |
| 53: _____ | 54: _____ | 55: _____ | 56: _____ |
| 57: _____ | 58: _____ | 59: _____ | 60: _____ |
| 61: _____ | 62: _____ | 63: _____ | 64: _____ |
| 65: _____ | 66: _____ | 67: _____ | 68: _____ |
| 69: _____ | 70: _____ | | |