

Exam simulation

FAA Part 107 Drone Exam Prep, 60 questions on 120 minutes!



QuizVds.it

STUDENT NAME:

DATE AND TIME:

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

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

02. If a remote PIC decides to deviate from a Part 107 rule to respond to an emergency, they must:

- a) Submit a written report to the FAA within 24 hours.
- b) Call the nearest air traffic control tower immediately.
- c) Send a written report to the FAA only if requested.

03. While operating a drone in a desert environment during the afternoon, a remote pilot notices small, swirling columns of dust. These are known as:

- a) Microbursts.
- b) Dust devils, which indicate unstable air and localized turbulence.
- c) Squall lines.

04. How do you request authorization to fly in Class B, C, or D airspace?

- a) By contacting the local control tower via VHF radio.
- b) By calling the airport manager.
- c) Through LAANC or the FAA DroneZone website.

05. According to 14 CFR part 107, what is the maximum groundspeed for a small UA?

- a) 100 knots.
- b) 87 knots.
- c) 87 mph.

Exam simulation

FAA Part 107 Drone Exam Prep, 60 questions on 120 minutes!



QuizVds.it

06. 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.

07. 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.

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

- 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.

09. 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.

10. 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.

11. If requested, to whom must you present your Remote Pilot Certificate?

- a) Local police officers only.
- b) Any member of the public.
- c) An authorized representative of the FAA Administrator.

Exam simulation

FAA Part 107 Drone Exam Prep, 60 questions on 120 minutes!



QuizVds.it

12. 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.

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

- 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.

14. 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.

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

- 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.

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

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

17. Is a visual observer (VO) required for all Part 107 operations?

- a) Yes, you must always have a VO.
- b) No, a VO is optional, but highly recommended.
- c) No, a VO is only required if flying over people.

Exam simulation

FAA Part 107 Drone Exam Prep, 60 questions on 120 minutes!



QuizVds.it

18. What is relative humidity?

- a) The ratio of the amount of water vapor actually in the air to the maximum amount that the air could hold at that temperature.
- b) The temperature at which air becomes saturated.
- c) The amount of moisture in the air compared to standard sea level pressure.

19. 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.

20. 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.

21. 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.

Exam simulation

FAA Part 107 Drone Exam Prep, 60 questions on 120 minutes!



QuizVds.it

22. In a METAR, 'SHRA' indicates:

- a) Rain showers.
- b) Shallow radiation fog.
- c) Snow and hail.

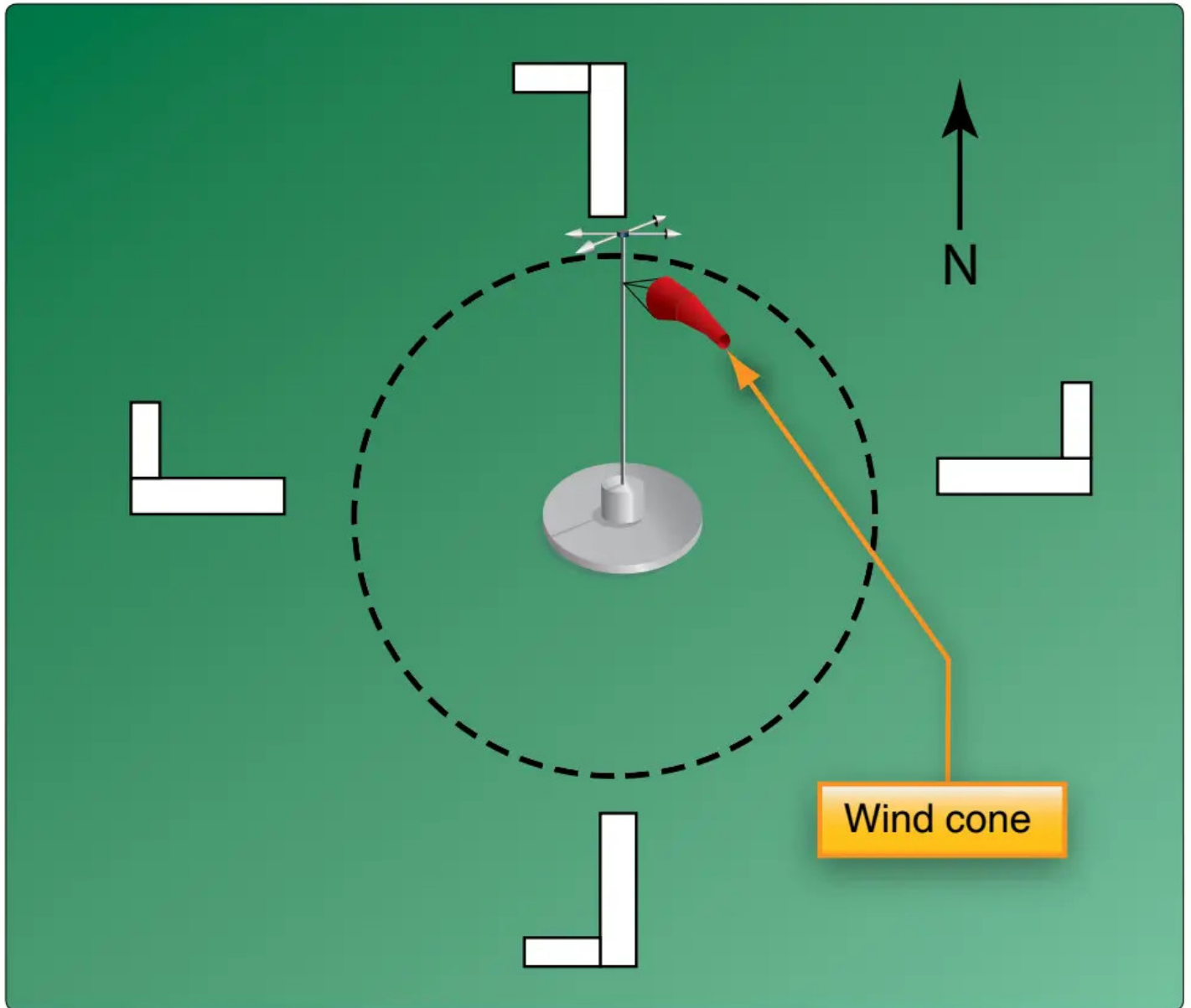
Exam simulation

FAA Part 107 Drone Exam Prep, 60 questions on 120 minutes!



QuizVds.it

23. Which runway and traffic pattern should be used as indicated by the wind cone in the segmented circle?



- a) Left-hand traffic on Runway 36.
- b) Right-hand traffic on Runway 9.
- c) Right-hand traffic on Runway 18.

Exam simulation

FAA Part 107 Drone Exam Prep, 60 questions on 120 minutes!



QuizVds.it

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

- 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.

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

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

26. What type of weather is generally associated with an advancing cold front?

- a) Towering cumulus clouds, showery precipitation, and thunderstorms.
- b) Stratiform clouds, widespread rain, and poor visibility.
- c) Clear skies and calm winds.

27. 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.

28. 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.

29. What must a remote pilot obtain before operating a small UAS in Class C airspace?

- a) Prior authorization from Air Traffic Control (ATC).
- b) A waiver from the FAA Administrator.
- c) A Mode C transponder.

Exam simulation

FAA Part 107 Drone Exam Prep, 60 questions on 120 minutes!



QuizVds.it

30. 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.

31. 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.

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

- 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.

33. What is the most comprehensive weather briefing a pilot can request before a flight?

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

34. 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.

35. What is the primary purpose of a Temporary Flight Restriction (TFR)?

- a) To protect persons or property on the surface or in the air from a specific hazard or situation.
- b) To mark military training routes.
- c) To reserve airspace for commercial airliners.

Exam simulation

FAA Part 107 Drone Exam Prep, 60 questions on 120 minutes!



QuizVds.it

36. Sea breezes are caused by:

- 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.

37. When flying near communication towers, what invisible hazard must remote pilots be especially vigilant about?

- a) Microbursts.
- b) Guy wires extending outward from the tower, which are very difficult to see.
- c) High-voltage magnetic fields that instantly fry the drone's battery.

38. A small UAS must be operated in a manner which does not interfere with and gives way to:

- a) Other unmanned aircraft.
- b) Vehicles on the ground.
- c) Any manned aircraft.

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

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

40. What increases the load factor on a fixed wing airplane?

- a) Power off stall.
- b) Level turn.
- c) Steady state climb.

41. 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.

Exam simulation

FAA Part 107 Drone Exam Prep, 60 questions on 120 minutes!



QuizVds.it

42. What are typical characteristics of unstable air?

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

43. 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.

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

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

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

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

46. 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).

47. 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 Exam Prep, 60 questions on 120 minutes!



QuizVds.it

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

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

49. 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.

50. 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.

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

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

52. 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.

53. To find out more information about parachute operations in the vicinity of an airport, what would you look at?

- a) Pilot's Handbook of Aeronautical Knowledge.
- b) Chart Supplements/Airport Facilities Directory.
- c) Local county website.

Exam simulation

FAA Part 107 Drone Exam Prep, 60 questions on 120 minutes!



QuizVds.it

54. If the Center of Gravity (CG) is too far forward, how does it affect the flight characteristics of an aircraft?

- a) It increases the maximum flight time.
- b) It decreases the stalling speed.
- c) It makes the aircraft nose-heavy, requiring more back-pressure or elevator trim to maintain level flight.

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

- 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.

56. 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.

57. 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.

58. How does frost form on an aircraft?

- a) When water drops freeze upon striking the aircraft's surface.
- b) When the temperature of the collecting surface is at or below the dew point of the adjacent air, and the dew point is below freezing.
- c) When flying through supercooled water droplets.

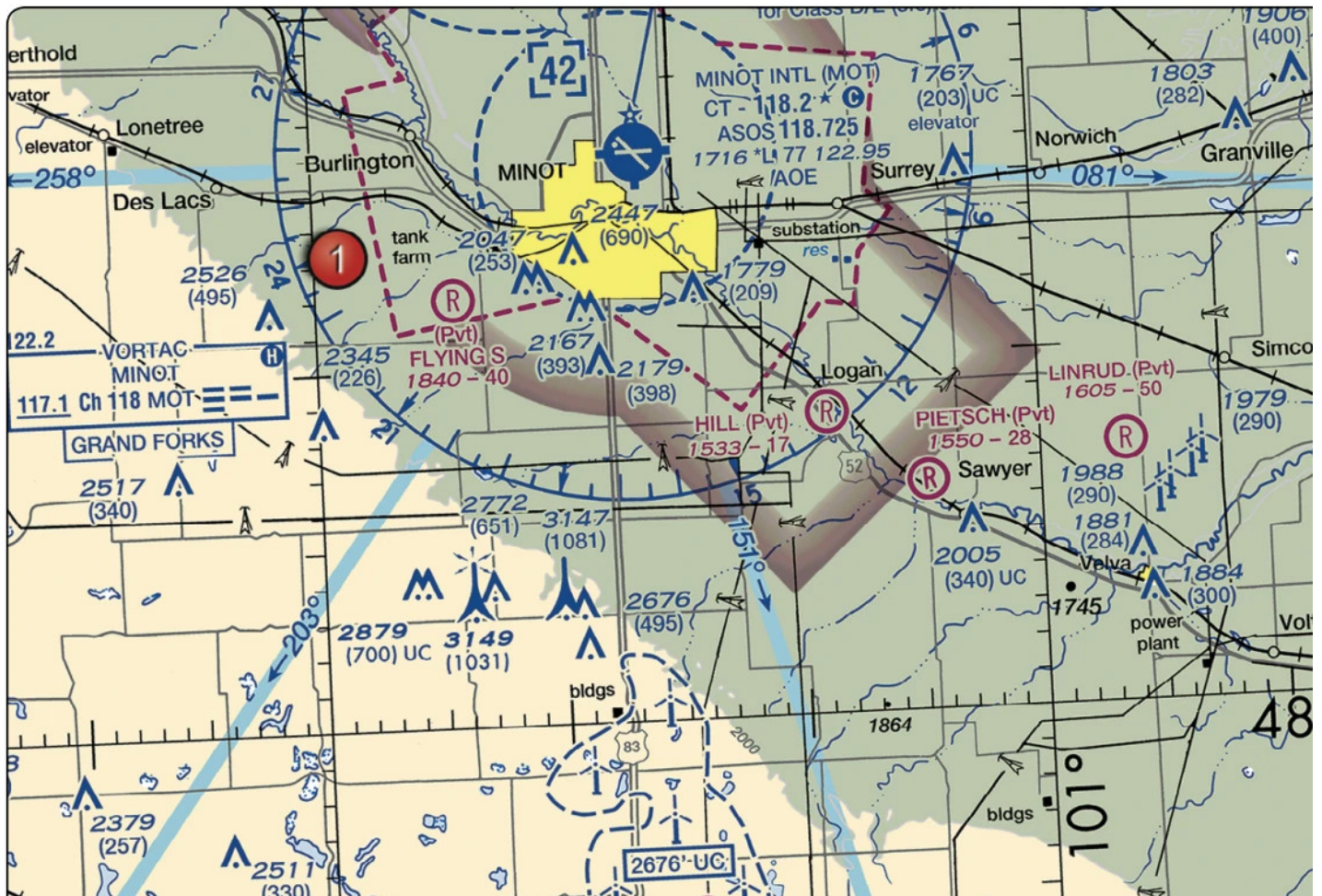
Exam simulation

FAA Part 107 Drone Exam Prep, 60 questions on 120 minutes!



QuizVds.it

59. How tall is the tallest tower in the group of towers approximately 15 statute miles south of Minot International Airport?



- a) 2,772' AGL.
- b) 1,081' AGL.
- c) 3,149' MSL.

60. 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.

Exam simulation

FAA Part 107 Drone Exam Prep, 60 questions on 120 minutes!



QuizVds.it

Response Scheme

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

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

Exam simulation

FAA Part 107 Drone Exam Prep, 60 questions on 120 minutes!



QuizVds.it

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: _____