

Exam simulation

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



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STUDENT NAME:

DATE AND TIME:

01. 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.

02. Part 107 applies to:

- a) Civil and public small UAS operations.
- b) Public UAS operations.
- c) Civil small UAS operations.

03. 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.

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

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

05. What is the purpose of a Common Traffic Advisory Frequency (CTAF)?

- a) For remote PICs to communicate with one another during flight operations.
- b) For manned aircraft pilots to self-announce their positions in and around non-towered airports.
- c) For ATC to monitor all uncontrolled airspace.

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06. When approaching taxiway holding lines from the side with the continuous lines, the pilot

- a) may continue taxiing.
- b) should not cross the lines without ATC clearance.
- c) should continue taxiing until all parts of the aircraft have crossed the lines.

07. 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.

08. Where would you go to obtain more information about restricted airspace R-2531?



- a) Chart Supplements/Airport Facilities Directory.
- b) Notes to Sectional Charts.
- c) Aeronautical Information Manual (AIM).

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09. When flying near the Mason Jewett Airport, which frequency should be used as the Common Traffic Advisory Frequency (CTAF) when scanning for air traffic activity?



- a) 122.4.
- b) 122.7.
- c) 119.425.

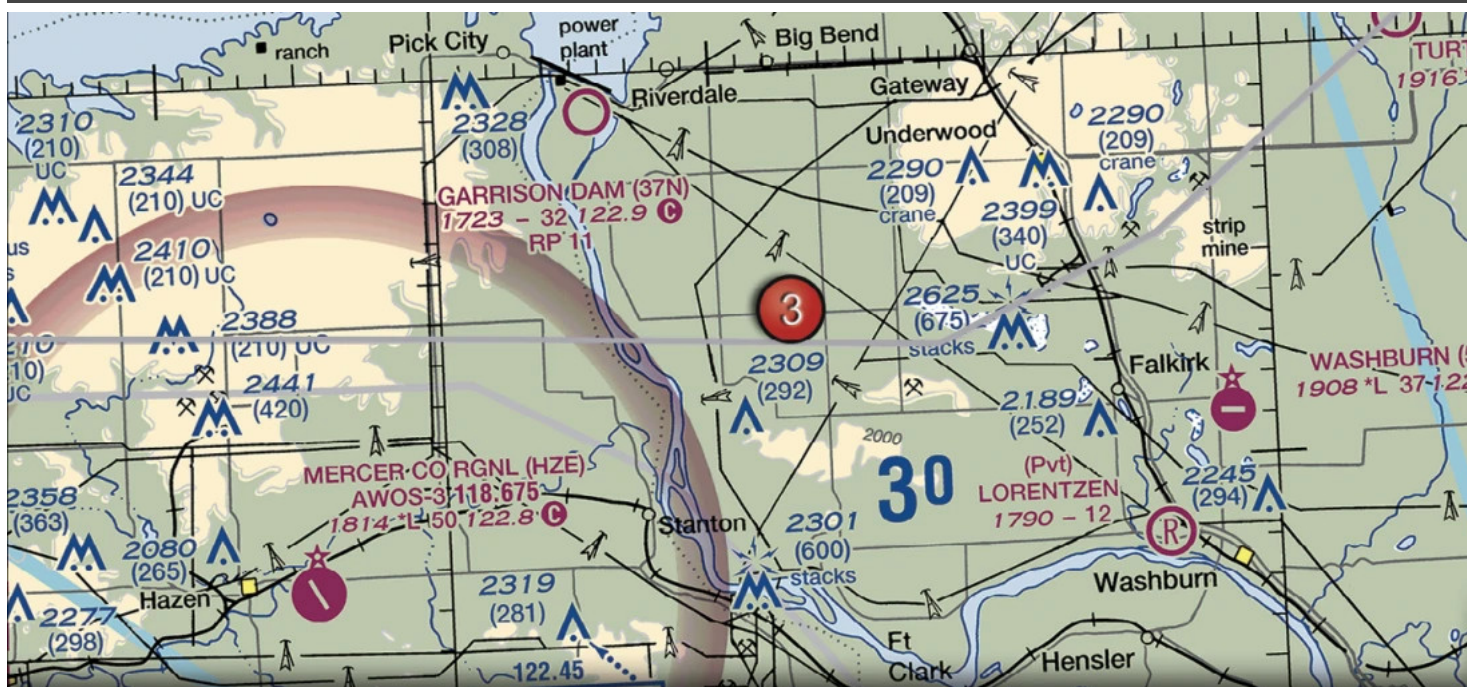
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10. What is the floor of the Class E airspace surrounding Mercer Co Rgnl (HZE)?



- a) 700' MSL.
- b) 750' AGL.
- c) 2,514' MSL.

11. 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.

12. When does an aerodynamic stall occur?

- a) When the airspeed drops below 10 knots.
- b) When the engine loses power.
- c) When the critical angle of attack is exceeded.

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13. 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.

14. What are the characteristics of stable air?

- a) Poor visibility and steady precipitation.
- b) Poor visibility and intermittent precipitation.
- c) Good visibility and steady precipitation.

15. 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).

16. 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.

17. When flying near a large body of water during the day, how does the wind typically blow?

- a) From the cooler water toward the warmer land (Sea Breeze).
- b) From the warmer land toward the cooler water (Land Breeze).
- c) Parallel to the shoreline at all times.

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18. Who is responsible for determining the appropriate maintenance schedule for a small UAS?

- a) The Federal Aviation Administration (FAA).
- b) The manufacturer, or the Remote PIC if no manufacturer schedule exists.
- c) A certified aviation mechanic.

19. The Coriolis force is created by:

- a) The unequal heating of the Earth's surface.
- b) The rotation of the Earth.
- c) The gravitational pull of the moon.

20. What is the primary danger to a drone pilot when flying in an area with a strong temperature inversion?

- a) The battery will overheat due to the rapidly rising air.
- b) The drone will be pushed uncontrollably upward into controlled airspace.
- c) Poor visibility due to trapped smoke, dust, and haze in the lower atmosphere, making VLOS difficult.

21. 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.

22. What is a 'squall line'?

- 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.

23. 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.

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24. 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).

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

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

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

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

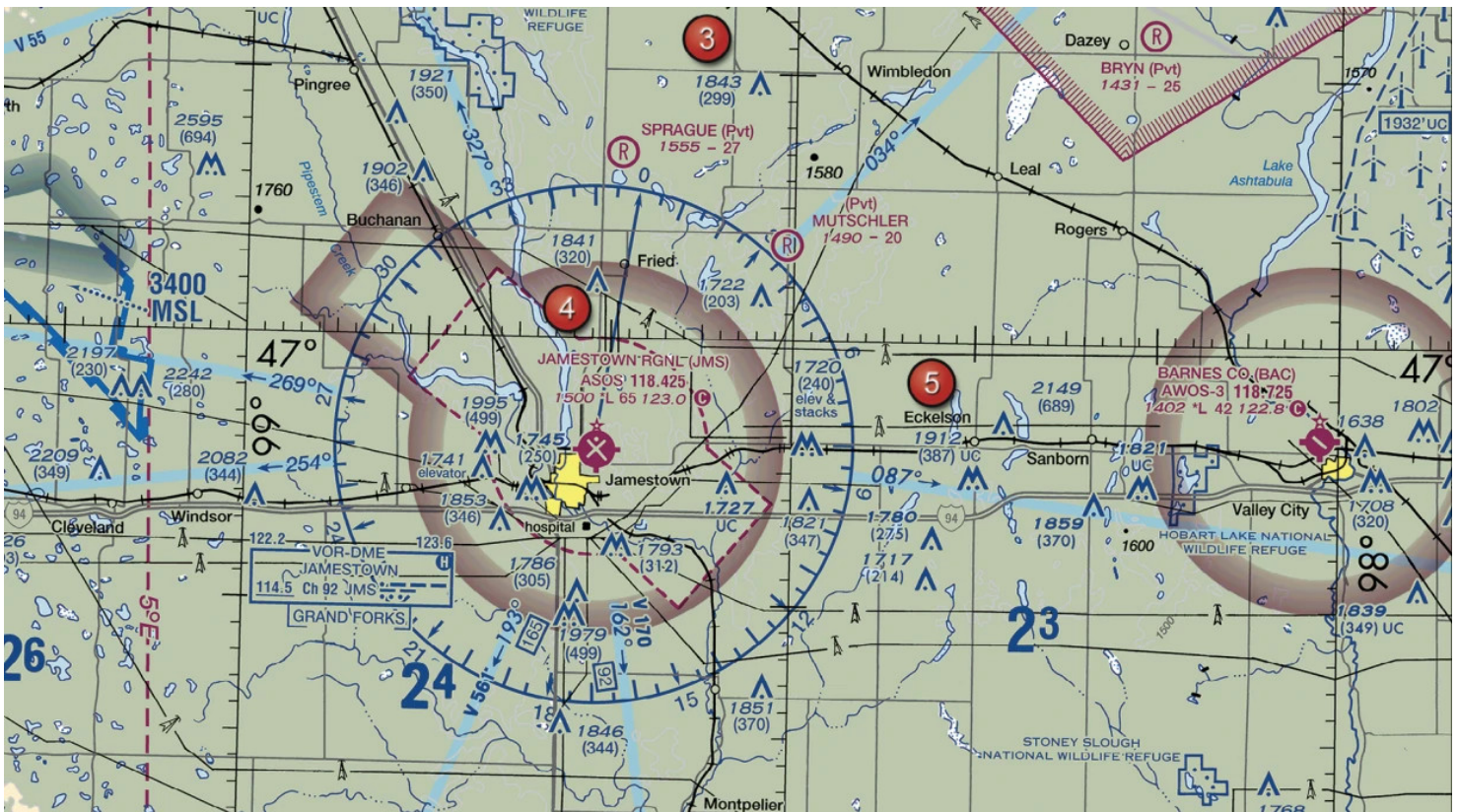
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27. What is the CTAF/UNICOM frequency at Barnes County Airport?



- a) 122.8 MHz.
- b) 123.6 MHz.
- c) 122.0 MHz.

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

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

29. 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.

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30. When an aircraft's center of gravity is located forward of the forward CG limit, the aircraft:

- a) Is highly unstable and difficult to control.
- b) Will stall at a lower airspeed.
- c) Will be highly stable, but will require more elevator pressure to raise the nose, decreasing performance.

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

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

32. What is the standard direction of turns in an airport traffic pattern?

- a) Right-hand turns.
- b) Left-hand turns.
- c) It alternates depending on the wind direction.

33. 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.

34. 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.

35. 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.

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36. Under what condition is pressure altitude and density altitude the same value?

- a) When the altimeter has no installation error.
- b) At standard temperature.
- c) At sea level, when the temperature is 0 °F.

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

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

38. You are flying a quadcopter and maneuvering aggressively, causing steep banks and rapid pull-ups. How does this affect the structural integrity of the drone?

- a) It strengthens the frame by testing its flexibility.
- b) It reduces the load factor because the drone is moving quickly.
- c) It increases the load factor, placing higher stress on the airframe and motors.

39. 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.

40. 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.

41. 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.

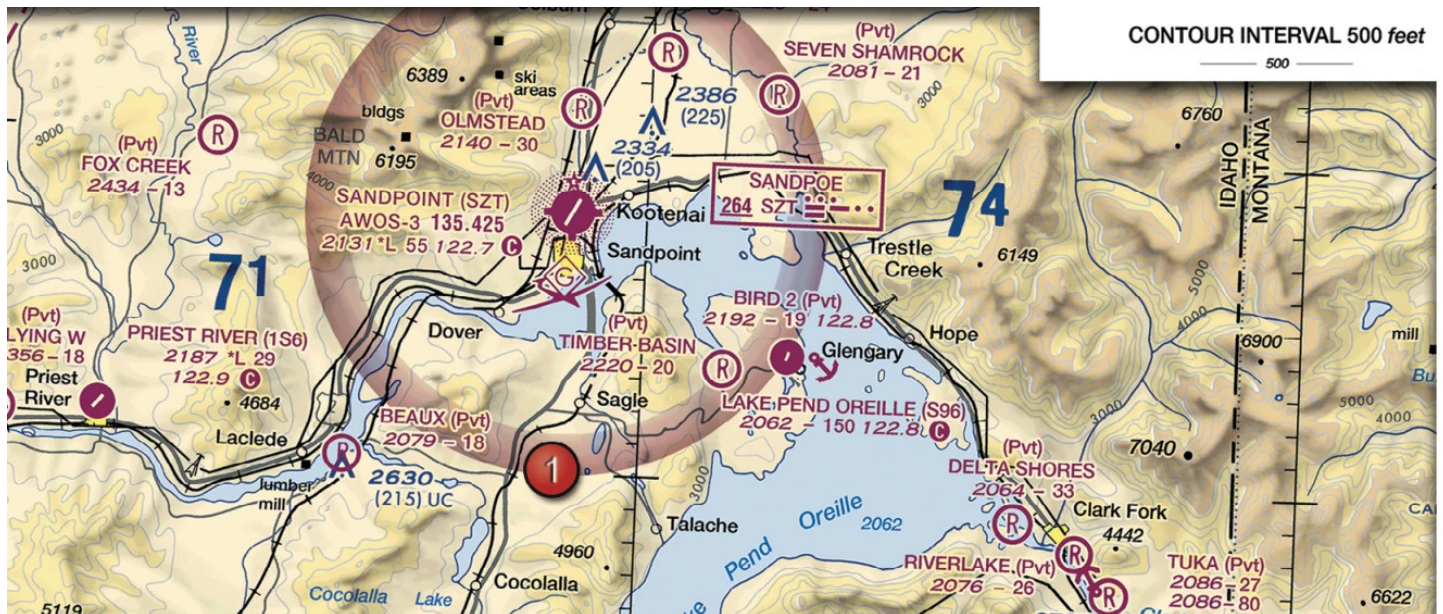
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42. What is the floor of controlled airspace around Sandpoint airport?



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

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

- 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.

44. If you are operating near an uncontrolled airport, what frequency should you monitor to listen to manned aircraft traffic?

- a) The CTAF (Common Traffic Advisory Frequency) listed for that airport.
- b) The regional ATC approach frequency.
- c) 121.5 MHz (the emergency frequency).

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

- 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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46. What is an Air Defense Identification Zone (ADIZ)?

- a) An area over a military base where drones are shot down.
- b) An area of airspace over land or water, extending upward from the surface, within which the ready identification, the location, and the control of aircraft are required in the interest of national security.
- c) Airspace designated exclusively for military drone training.

47. What is the antidote for the hazardous attitude of 'Macho'?

- a) Taking chances is foolish.
- b) I am not helpless. I can make a difference.
- c) It could happen to me.

48. 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.

49. 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.

50. 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.

51. If the visual observer (VO) loses sight of the sUAS, what should they do?

- a) Use binoculars to find it.
- b) Immediately inform the Remote PIC so they can safely bring the aircraft back into visual line of sight.
- c) Wait quietly until it reappears.

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52. 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.

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

- 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.

54. 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?

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

55. 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.

56. When may a remote pilot operate a small UAS from a moving watercraft?

- a) When the operation takes place over a sparsely populated area.
- b) When operating in Class B airspace.
- c) It is never permitted to operate from a moving watercraft.

57. 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.

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58. What does an 'R' followed by a number (e.g., R-2503) indicate on a sectional chart?

- a) A Radar approach control zone.
- b) A Recreational drone flying area.
- c) A Restricted Area.

59. If you see a faded magenta band on a sectional chart, what does it indicate about the Class E airspace?

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

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

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

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Response Scheme

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

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