# Exam simulation

FAA Part 107 Drone Exam Prep - Operations

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| STUDENT NAME: | DATE AND TIME: |
|---|---|

**01. What is the primary function of a Common Traffic Advisory Frequency (CTAF)?**

a) To request ATC clearance into Class B airspace.
b) For pilots to self-announce their positions and intentions at uncontrolled airports.
c) To receive automated weather broadcasts.

**02. The lateral dimensions of Class D airspace are based on**

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.

**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. 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.

**05. What effect does haze have on the ability to see traffic or terrain features during flight?**

a) All traffic or terrain features appear to be farther away than their actual distance.
b) Haze causes the eyes to focus at infinity.
c) The eyes tend to overwork in haze and do not detect relative movement easily.

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**06. What is AWOS?**

a) Automated Weather Observing System.

b) Aviation Weather Outlook Service.

c) Automated Wind and Overcast System.

**07. In the IMSAFE checklist, what does the 'M' stand for?**

a) Maintenance.

b) Meteorology.

c) Medication.

**08. 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.

**09. Can you carry hazardous materials on a small UAS under Part 107?**

a) Yes, if securely fastened.

b) Yes, if you have a hazardous materials endorsement.

c) No, carrying hazardous materials is explicitly prohibited.

**10. 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.

**11. What is the expected duration of an individual microburst?**

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.

**12. How are the weather conditions at Los Angeles International Airport (KLAX) best described?**




a) Visibility of 16 statute miles, wind speed of 5 knots.
b) Scattered clouds at 700 feet, temperature of 16 °C.
c) Wind coming from NE, visibility obscured by fog.

**13. What kind of weather conditions are typically expected under a low-level temperature inversion when relative humidity is high?**

a) Smooth air, poor visibility, fog, haze, or low clouds.
b) Turbulent air, excellent visibility, and thunderstorms.
c) High winds and heavy snow showers.

**14. If you read 'VCTS' in a METAR, what should you expect?**

a) Visibility is clear to the surface.
b) Variable cloud layers.
c) Thunderstorms in the vicinity of the airport.

**15. The elevation of the Chesapeake Regional Airport is**




a) 19 feet.

b) 36 feet.

c) 360 feet.

**16. 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.

**17. In a TAF, what does 'BECMG' indicate?**

a) A gradual change in conditions occurring over a specified time period (usually 2 hours).

b) A probability of certain conditions occurring.

c) Becoming clear skies.

**18. Wind directions broadcasted over an AWOS, ASOS, or ATIS frequency are given in reference to:**

a) True North.

b) Magnetic North.

c) Grid North.

**19. 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).

**20. 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).

**21. 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.

**22. 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.

**23. In a TAF, what does the 'FM' (From) group indicate?**

a) A gradual change in weather taking place over several hours.

b) Temporary fluctuations in weather.

c) A rapid and significant change in weather expected within less than an hour.

**24. According to today's weather forecast, there will be a ceiling at 700 feet. Knowing this, up to what altitude are you allowed to fly your drone?**

a) 500 feet AGL.

b) 400 feet AGL.

c) 200 feet AGL.

**25. 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.

**26. 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.

**27. 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.

**28. 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.

**29. 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.

**30. What is the ceiling of controlled airspace at Collin Co Rgnl McKinney (TKI)?**

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a) 2,900' MSL.
b) 2,311' MSL.
c) 2,900' AGL.

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

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

**32. During a flight, the drone battery catches fire and destroys the drone, but causes no other damage. Do you need to report this to the FAA?**

a) No, damage to the drone itself does not require reporting.

b) Yes, all fires must be reported within 10 days.

c) Yes, because the cost of the drone exceeds $500.

**33. 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.

**34. 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.

**35. Can an air traffic controller at a local tower give you Part 107 airspace authorization over a VHF radio?**

a) Yes, verbal authorization is preferred.

b) Yes, but only in Class D airspace.

c) No, Part 107 operators must use LAANC or the FAA DroneZone for authorization.

**36. 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.

**37. This sign is a visual clue that**




a) warns the pilot of approaching taxiway "B."
b) confirms the aircraft's location to be on taxiway "B."
c) indicates "B" holding area is ahead.

**38. 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.

**39. 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.

**40. 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?**

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.

**41. 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.

**42. What is 'induced drag'?**

a) Drag that is inherently created as a byproduct of generating lift.
b) Drag caused by the physical shape of the aircraft flying through the air.
c) Drag caused by the friction of the air on the drone's skin.

**43. 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.

**44. How does high density altitude affect the performance of a small UAS?**

a) It improves performance because the air is less dense.
b) It decreases performance due to reduced propeller efficiency and reduced aerodynamic lift.
c) It increases the efficiency of the battery.

**45. On a sectional chart, you see a number like [25] inside a dashed blue box. What does this represent?**

a) The length of the runway is 2,500 feet.
b) The ceiling of the Class D airspace is 2,500 feet MSL.
c) The minimum safe altitude is 2,500 feet AGL.

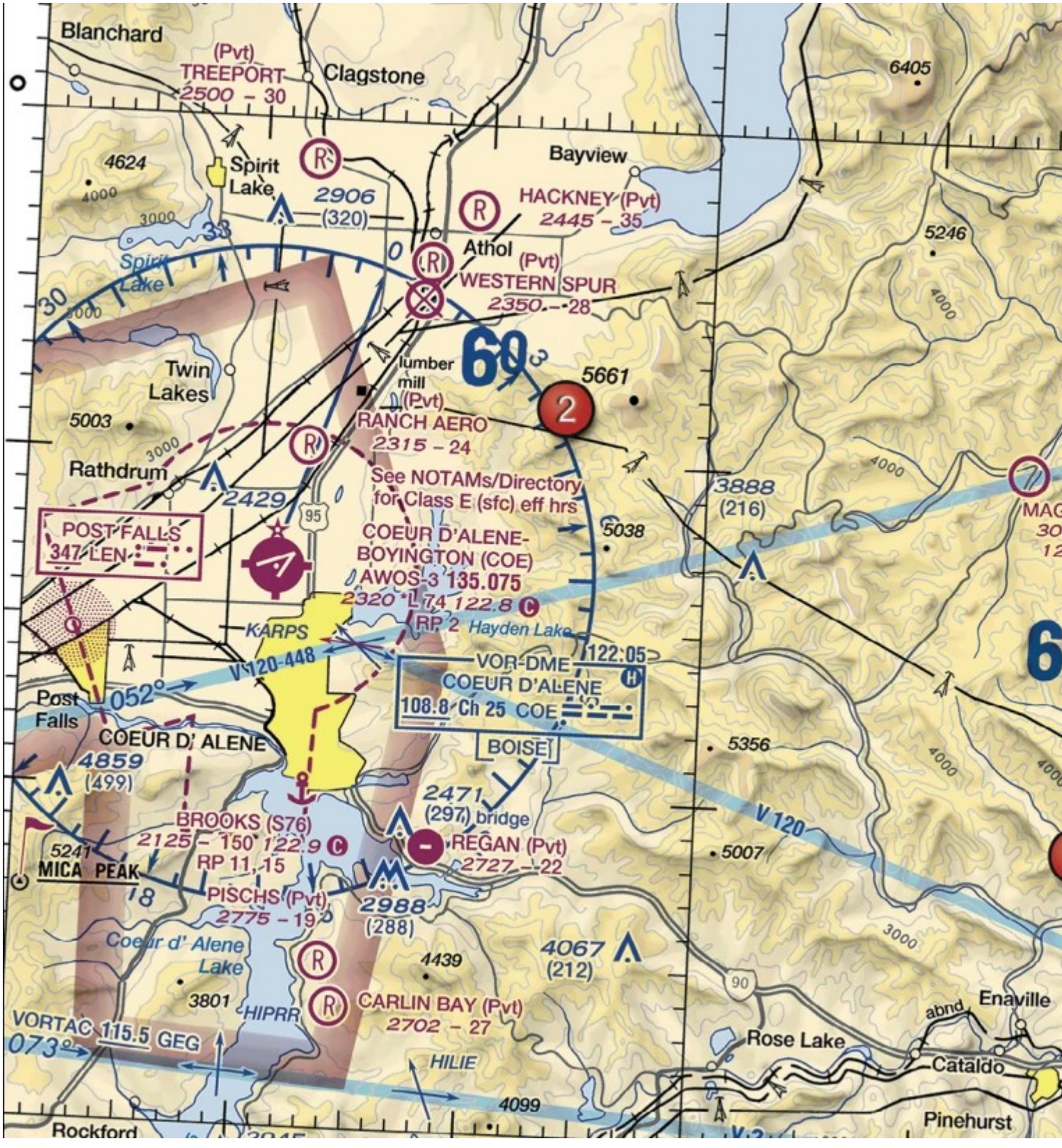
**46. How do you request authorization to fly in Class B, C, or D airspace?**

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

**47. Which statement about longitude and latitude is true?**

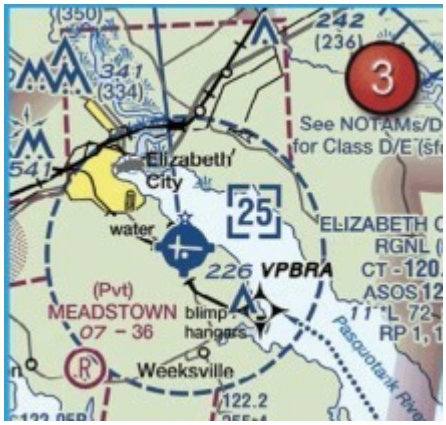
a) The 0° line of latitude passes through Greenwich, England.
b) Lines of longitude cross the Equator at right angles.
c) Lines of longitude are parallel to the Equator.

**48. At Coeur D'Alene which frequency should be used as a Common Traffic Advisory Frequency (CTAF**



a) 122.05 MHz.
b) 122.8 MHz.
c) 135.075 MHz.

**49. What type of airspace surrounds Elizabeth City Rgnl (ECG)?**




a) Class D.

b) Class G.

c) Class B.

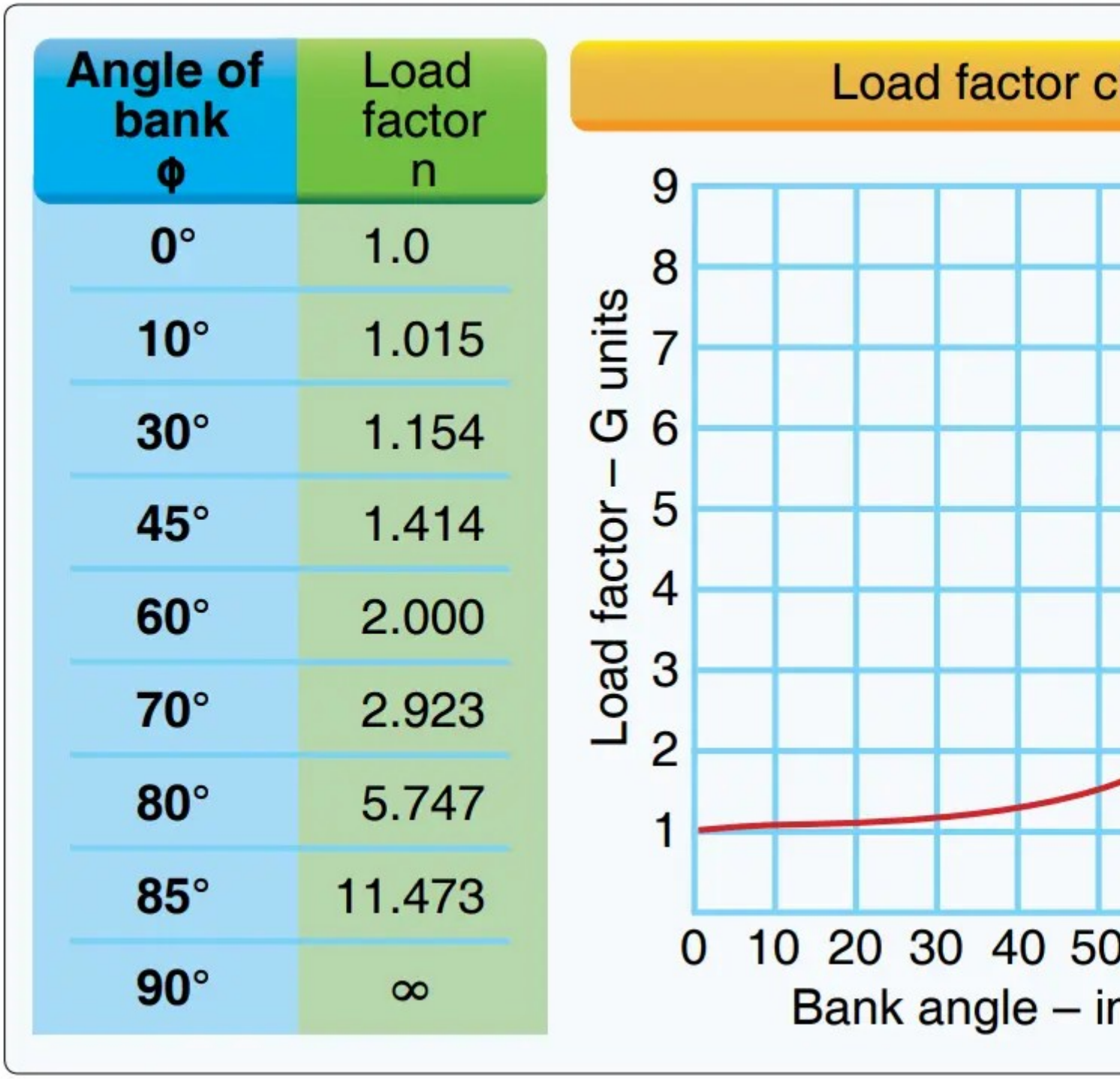
**50. If the temperature increases from 60°F to 90°F at your flying site, what happens to the density altitude and your drone's performance?**

a) Density altitude increases, and drone performance decreases.

b) Density altitude decreases, and drone performance increases.

c) Density altitude increases, and drone performance increases.

**51. If an unmanned aircraft weighs 45 pounds, what approximate weight would the aircraft structure a 45° banked turn while maintaining altitude?**



| Angle of bank ϕ | Load factor n |
|---|---|
| 0° | 1.0 |
| 10° | 1.015 |
| 30° | 1.154 |
| 45° | 1.414 |
| 60° | 2.000 |
| 70° | 2.923 |
| 80° | 5.747 |
| 85° | 11.473 |
| 90° | ∞ |



a) 72 pounds.
b) 63 pounds.
c) 45 pounds.

**52. The CAUTION box denotes what hazard to aircraft?**

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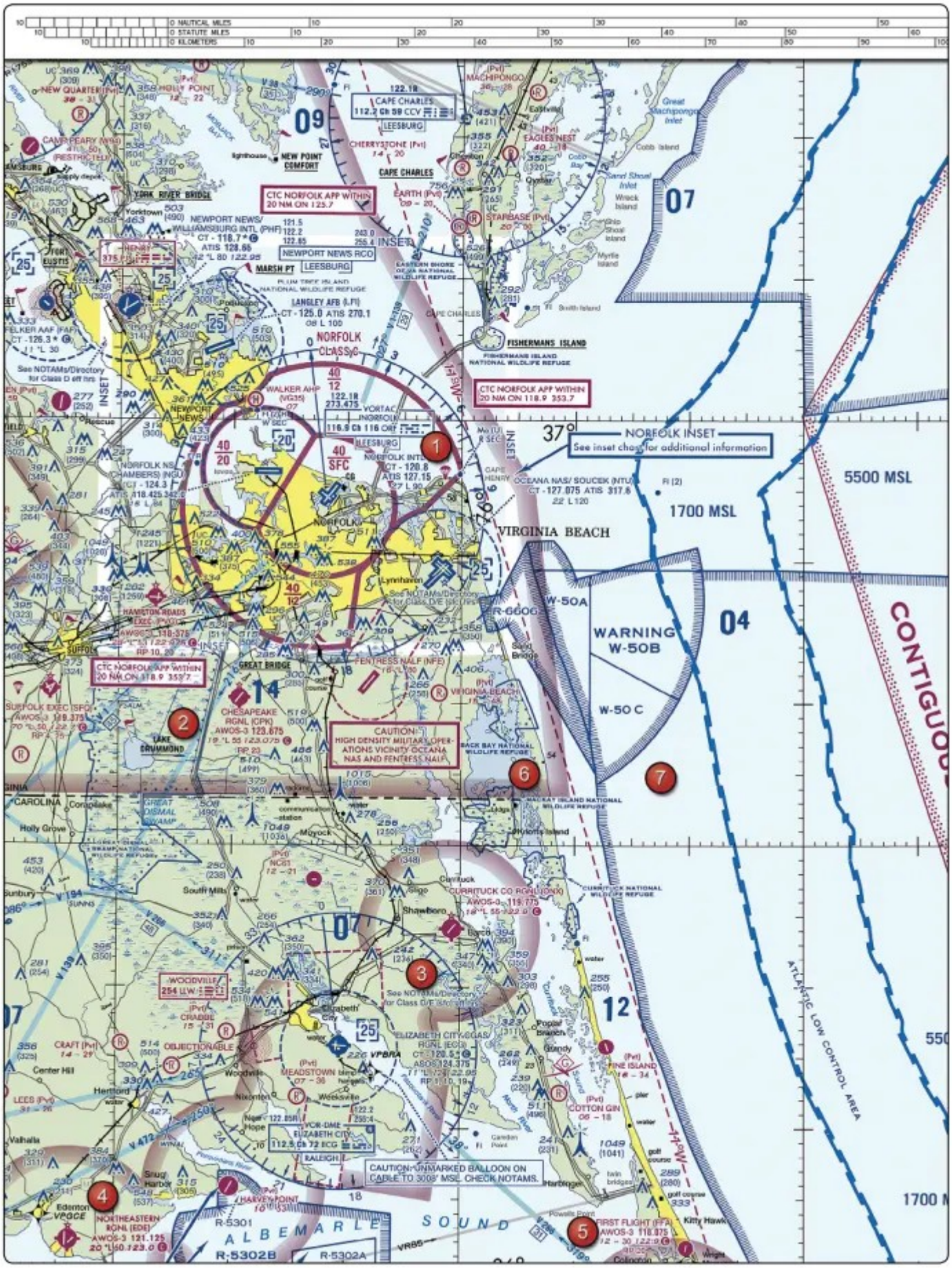
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a) Unmarked blimp hangars at 300 feet MSL.
b) Unmarked balloon on cable to 3,008 feet MSL.
c) Unmarked balloon on cable to 3,008 feet AGL.

**53. What weather chart provides a graphical overview of surface weather systems such as fronts, high and low-pressure centers?**

a) Weather Depiction Chart.
b) Radar Summary Chart.
c) Surface Analysis Chart.

**54. How can a remote pilot check for Temporary Flight Restrictions (TFRs) before a flight?**

a) By calling 911.
b) By reading the local newspaper.
c) By checking the FAA's Notice to Air Missions (NOTAM) system.

**55. 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).

**56. According to Part 107, who is responsible for ensuring that all persons directly participating in the operation are informed about the operating conditions and emergency procedures?**

a) The person who hired the drone pilot.
b) The Remote PIC.
c) The visual observer.

**57. Why is frost considered hazardous to drone operations?**

a) It adds immense weight to the aircraft, dragging it down.
b) It shorts out the electronic speed controllers.
c) It disrupts the smooth flow of air over the airfoil, decreasing lift and increasing drag.

**58. 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.

**59. What is the antidote for the hazardous attitude of 'Resignation'?**

a) Not so fast. Think first.
b) I am not helpless. I can make a difference.
c) Taking chances is foolish.

**60. What does LAANC stand for?**

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

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

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.

**62. What is the effect on the propeller efficiency of low density altitude?**

a) Propeller efficiency is increased.
b) There is no effect on propeller efficiency.
c) Propeller efficiency is decreased.

**63. 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.

**64. 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.

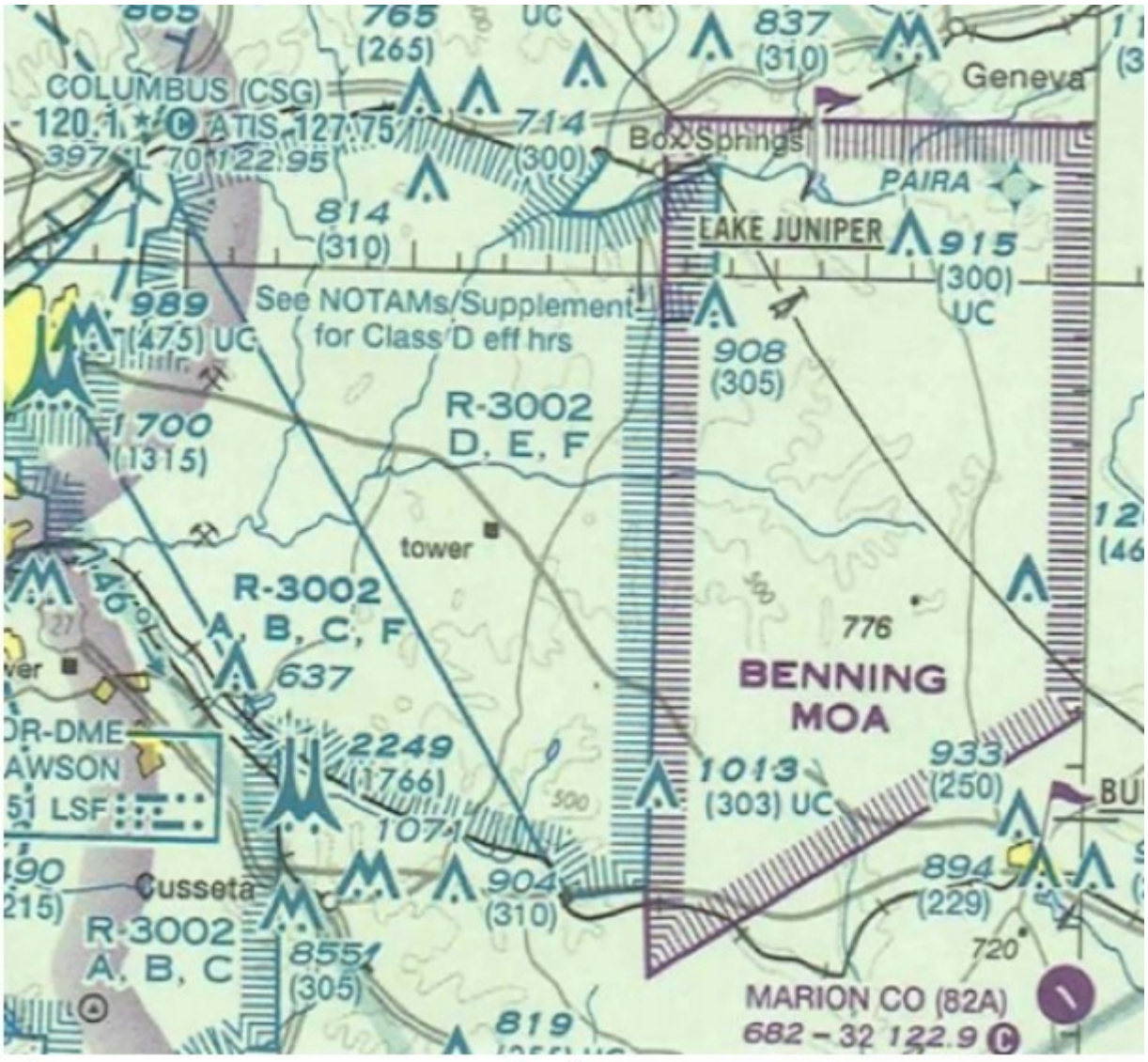
**65. What is 'autokinesis'?**

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.

**66. In the sectional chart below, what kind of airspace is enclosed by the hash-marked magenta border?**




a) Restricted Area.

b) Military Operations Area.

c) Temporary Flight Restriction.

**67. 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.

**68. If a small UAS does not have a manufacturer's published weight and balance manual, what should the remote PIC do?**

a) Develop their own process or use industry best practices to ensure the aircraft is safely loaded and balanced.

b) Assume the aircraft can carry any payload as long as it takes off.

c) The remote PIC is prohibited from flying the aircraft without a published manual.

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

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.

**70. In a METAR report, what does the abbreviation 'HZ' stand for?**

a) Hail.

b) Haze.

c) Heavy rain.

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# Response Scheme

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

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