Exam simulation

FAA PPL(A) - Private Pilot Airplane - Performance and Ground Reference Maneuvers

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STUDENT NAME:	DATE AND TIME:

01. If an in-flight emergency requires immediate action, the pilot in command may

a) deviate from any rule of 14 CFR Part 91 to the extent required to meet the emergency, but must submit a written report to the Administrator within 24 hours

b) deviate from any rule of 14 CFR Part 91 to the extent required to meet that emergency

c) not deviate from any rule of 14 CFR Part 91 unless prior to the deviation approval is granted by the Administrator

02. The use of flaps in slow flight:

a) May be used

b) Can only be deployed ten degrees

c) Are never allowed to be used in slow flight

03. In flying an S-Turn, the greatest amount of crab occurs:

a) As the airplane turns upwind

b) At the point where the airplane is directly crosswind

c) At a point when the airplane turns directly downwind

04. With certain exceptions, when must each occupant of an aircraft wear an approved parachute?

a) When intentionally pitching the nose of the aircraft up or down 30° or more

b) When intentionally banking in excess of 30°

c) When a door is removed from the aircraft to facilitate parachute jumpers

05. The angle of attack at which an airplane wing stalls will

a) change with an increase in gross weight

b) increase if the CG is moved forward

c) remain the same regardless of gross weight

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06. Before passengers can be carried in an aircraft that has been altered in a manner that may have appreciably changed its flight characteristics, it must be flight tested by an appropriately-rated pilot who holds at least a

a) Commercial Pilot Certificate with an instrument rating

b) Private Pilot Certificate

c) Commercial Pilot Certificate and a mechanic's certificate

07. When making a night approach to land, you should use:

a) A higher airspeed

b) The same approach as during daytime

c) A steeper descent angle

08. A steady green light signal directed from the control tower to an aircraft in flight is a signal that the pilot

a) is cleared to land

b) should give way to other aircraft and continue circling

c) should return for landing

09. An ATC radar facility issues the following advisory to a pilot flying on a heading of 360°: "TRAFFIC 10 O'CLOCK, 2 MILES, SOUTHBOUND..." Where should the pilot look for this traffic?

a) Southwest

b) Northeast

c) Northwest

10. As Pilot in Command of an aircraft, under which situation can you deviate from an ATC clearance?

a) In response to a traffic alert and collision avoidance system resolution advisory

b) When operating in Class A airspace at night

c) If an ATC clearance is not understood and in VFR conditions

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11. Where should you perform the pre-takeoff checks at the airport?

a) On a taxiway along the way to the runway

b) Run-up area near the takeoff end of the runway

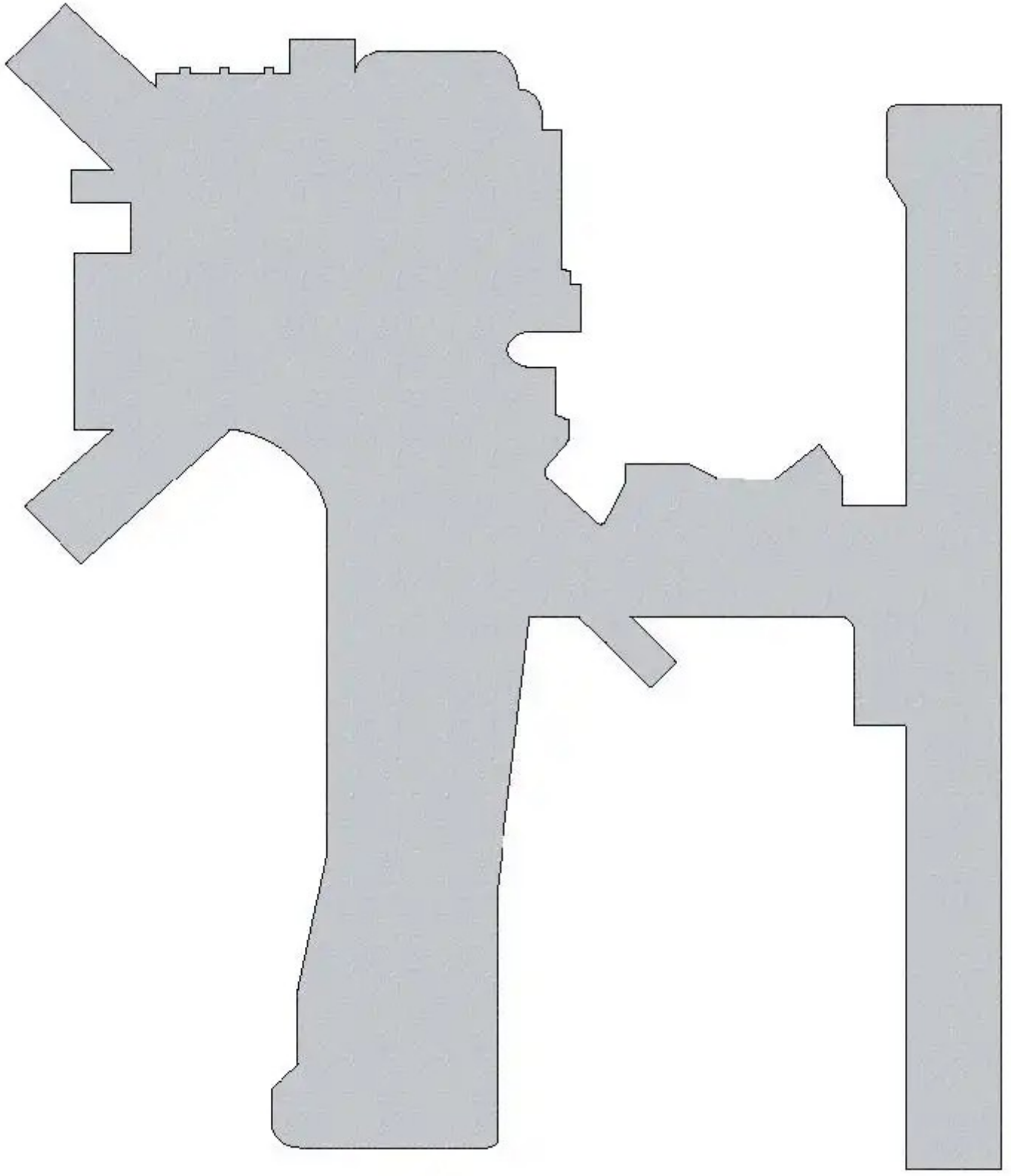
c) Apron area after starting the engine

12. (Refer to figure 48.) That portion of the runway identified by the letter A may be used for

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a) taxiing and takeoff
b) landing
c) taxiing and landing

13. (Refer to Figure 59, area 4.) You are flying along the coastline at 7,000' under the 9,000' MSL Class B shelf southeast bound (area 4). Are you required to have an ADS-B Out system?

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a) No, the flight is taking place below 10,000' MSL
b) Yes
c) No, the flight is taking place outside of Class B airspace

14. When approaching to land at an airport, without an operating control tower, in Class G airspace, the pilot should

a) enter and fly a traffic pattern at 800 feet AGL
b) make all turns to the left, unless otherwise indicated
c) fly a left-hand traffic pattern at 800 feet AGL

15. The ground reference maneuver, rectangular course, represents:

a) An airport traffic pattern
b) An emergency landing situation
c) An engine out emergency landing scenario

16. What code should a pilot set their transponder to when flying VFR?

a) 3/A Code 1200
b) 3/A Code 2400
c) 3/A Code 1400

17. What force makes an airplane turn?

a) The vertical component of lift
b) Centrifugal force
c) The horizontal component of lift

18. Detonation occurs in a reciprocating aircraft engine when

a) the spark plugs are fouled or shorted out or the wiring is defective
b) hot spots in the combustion chamber ignite the fuel/air mixture in advance of normal ignition
c) the unburned charge in the cylinders explodes instead of burning normally

19. A runway VASI system provides:

a) Illumination to better see the landing area

b) Visual descent information to the runway

c) Left and right descent guidance to the runway

20. While attempting a level turn, you begin to lose altitude. In addition to the natural horizon, what should you reference to make a correction?

a) GPS moving map

b) Flight instruments

c) Tachometer

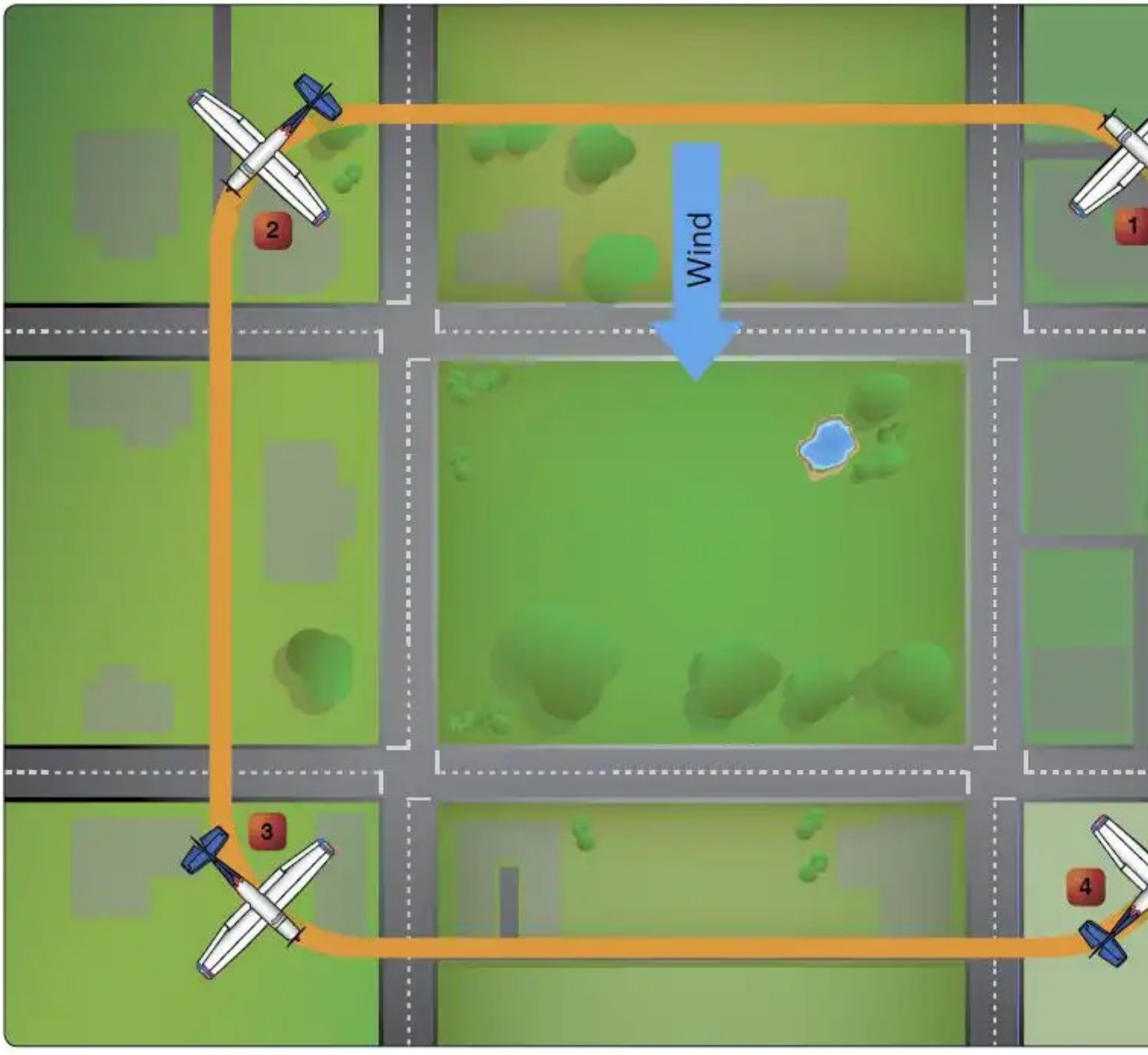
21. During a night flight, you observe a steady white light and a flashing red light ahead and at the same altitude. What is the general direction of movement of the other aircraft?

a) The other aircraft is flying away from you

b) The other aircraft is crossing to the right

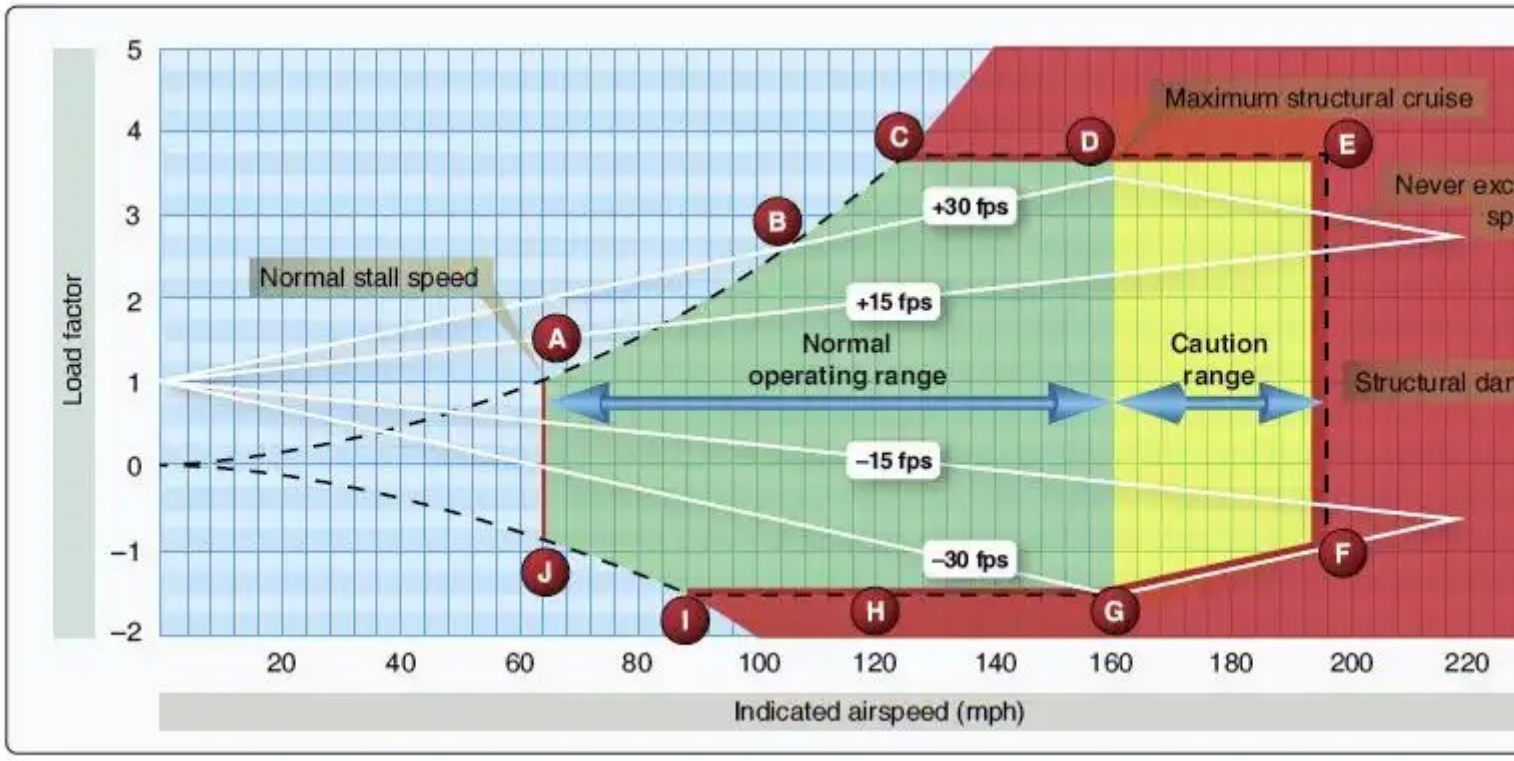
c) The other aircraft is crossing to the left

22. (Refer to figure 62.) In flying the rectangular course, when would the aircraft be turned less than



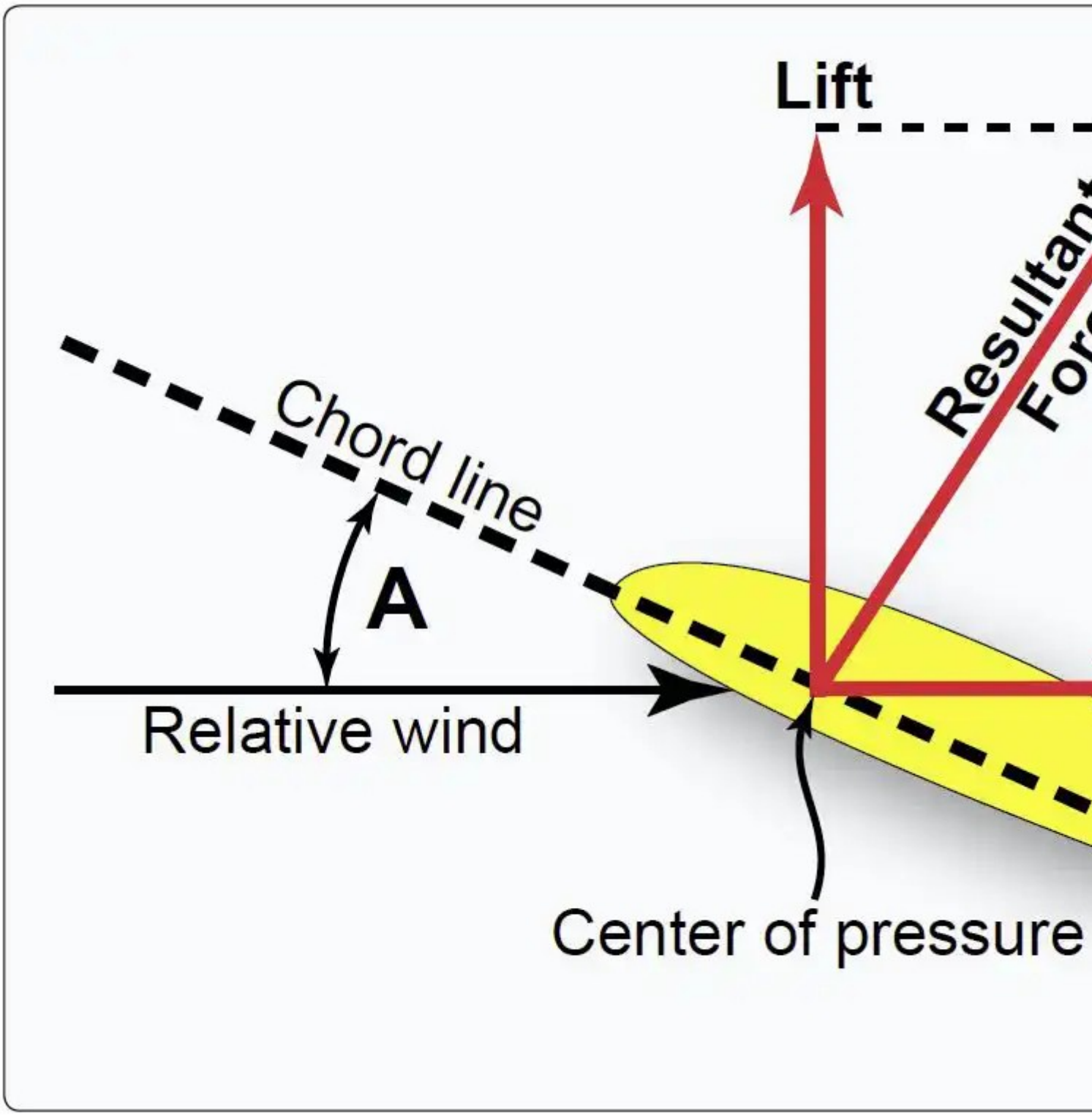
a) Corners 1 and 2
b) Corners 2 and 4
c) Corners 1 and 4

23. (Refer to figure 72.) What does the vertical line connecting points E and F represent on the airsp indicator?



a) The top of the normal operating range
b) The top of the white arc
c) The red line

24. (Refer to figure 1.) The acute angle A is the angle of



a) attack
b) dihedral
c) incidence

25. The term 'angle of attack' is defined as the angle between the

a) chord line of the wing and the relative wind

b) airplane's center line and the relative wind

c) airplane's longitudinal axis and that of the air striking the airfoil

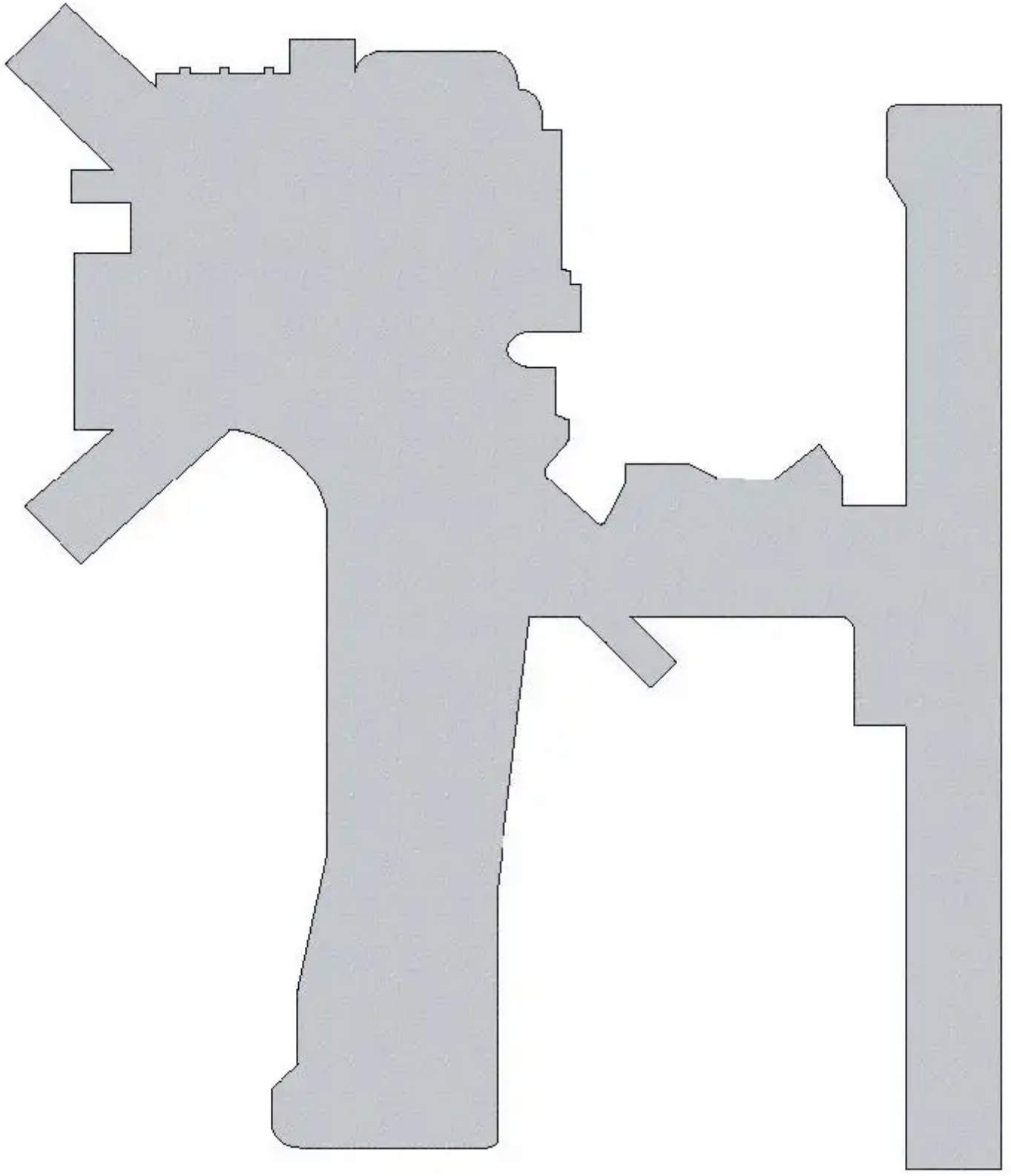
26. (Refer to figure 48.) According to the airport diagram, which statement is true?

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a) Runway 12 is equipped at position E with emergency arresting gear to provide a means of stopping military aircraft

b) The takeoff and landing portion of Runway 12 begins at position B

c) Takeoffs may be started at position A on Runway 12, and the landing portion of this runway begins at position B

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27. An ATC radar facility issues the following advisory to a pilot during a local flight: ''TRAFFIC 2 O'CLOCK, 5 MILES, NORTHBOUND...'' Where should the pilot look for this traffic?

a) Between directly behind and 90° to the right

b) Between directly ahead and 90° to the right

c) Between directly ahead and 90° to the left

28. During an approach to a stall, an increased load factor will cause the airplane to

a) have a tendency to spin

b) be more difficult to control

c) stall at a higher airspeed

29. As you approach your destination airport in Class B airspace after a long cross-country flight, you learn that the airport is unexpectedly closed. While diverting to an alternate airport, you calculate that you will land with just a few gallons of fuel in the tank. What should you tell ATC?

a) Declare an emergency

b) No need to make a report to ATC

c) Minimum fuel

30. What measurement can be used to determine the stability of the atmosphere?

a) Surface temperature

b) Actual lapse rate

c) Atmospheric pressure

31. Changes in the center of pressure of a wing affect the aircraft's

a) lift/drag ratio

b) lifting capacity

c) aerodynamic balance and controllability

32. At what minimum distance should a pilot report a near midair collision to the FAA?

a) 600 feet
b) 700 feet
c) 500 feet

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

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

34. The load factor in a level, coordinated turn with 60 degrees of bank is:

a) 3.00 Gs
b) 2.00 Gs
c) 1.00 G

35. When executing an emergency approach to land in a single-engine airplane, it is important to maintain a constant glide speed because variations in glide speed will

a) increase the chances of shock cooling the engine
b) assure the proper descent angle is maintained until entering the flare
c) nullify all attempts at accuracy in judgment of gliding distance and landing spot

36. Carburetor ice is most likely to occur when temperatures are:

a) Above 105 degrees Fahrenheit (°F)
b) Below 70 degrees Fahrenheit (°F) and the relative humidity is above 80 percent
c) Below 20 degrees Fahrenheit

37. In the Northern Hemisphere, the magnetic compass will normally indicate a turn toward the south when

a) a right turn is entered from a west heading
b) the aircraft is decelerated while on a west heading
c) a left turn is entered from an east heading

38. The load factor on any airplane during a constant altitude turn is determined by:

a) The type of aircraft being flown

b) Airspeed

c) Bank alone

39. When an ATC clearance has been obtained, no pilot in command may deviate from that clearance, unless that pilot obtains an amended clearance. The one exception to this regulation is

a) an emergency

b) when the clearance states 'at pilot's discretion'

c) if the clearance contains a restriction

40. During a night flight, you observe steady red and green lights ahead and at the same altitude. What is the general direction of movement of the other aircraft?

a) The other aircraft is crossing to the left

b) The other aircraft is approaching head-on

c) The other aircraft is flying away from you

41. Deviation error of the magnetic compass is caused by

a) northerly turning error

b) the difference in location of true north and magnetic north

c) certain metals and electrical systems within the aircraft

42. Under what condition will true altitude be lower than indicated altitude?

a) In colder than standard air temperature

b) In warmer than standard air temperature

c) When density altitude is higher than indicated altitude

43. As the airplane slows down in flight, the angle of attack must be:

a) Remain the same

b) Decreased to maintain altitude

c) Increased to maintain altitude

44. A pilot can expect a wind-shear zone in a temperature inversion whenever the windspeed at 2,000 to 4,000 feet above the surface is at least

a) 15 knots

b) 10 knots

c) 25 knots

45. How can you get in-flight weather updates for your destination airport while still 150 - 200 miles away?

a) Contact Flight Watch for an update

b) Retrieve the latest METAR and TAF using FIS-B

c) Tune in the ATIS for the destination airport

46. The most important rule to remember in the event of a power failure after becoming airborne is to

a) quickly check the fuel supply for possible fuel exhaustion

b) determine the wind direction to plan for the forced landing

c) immediately establish the proper gliding attitude and airspeed

47. What must a pilot be aware of as a result of ground effect?

a) Induced drag decreases; therefore, any excess speed at the point of flare may cause considerable floating

b) Wingtip vortices increase creating wake turbulence problems for arriving and departing aircraft

c) A full stall landing will require less up elevator deflection than would a full stall when done free of ground effect

48. Which type weather briefing should a pilot request, when departing within the hour, if no preliminary weather information has been received?

a) Abbreviated briefing

b) Standard briefing

c) Outlook briefing

49. With respect to passengers, what obligation, if any, does a pilot in command have concerning the use of safety belts?

a) The pilot in command must instruct the passengers to keep their safety belts fastened for the entire flight

b) The pilot in command has no obligation in regard to passengers' use of safety belts

c) The pilot in command must brief the passengers on the use of safety belts and notify them to fasten their safety belts during taxi, takeoff, and landing

50. An airport's rotating beacon operated during daylight hours indicates

a) that weather at the airport located in Class D airspace is below basic VFR weather minimums

b) there are obstructions on the airport

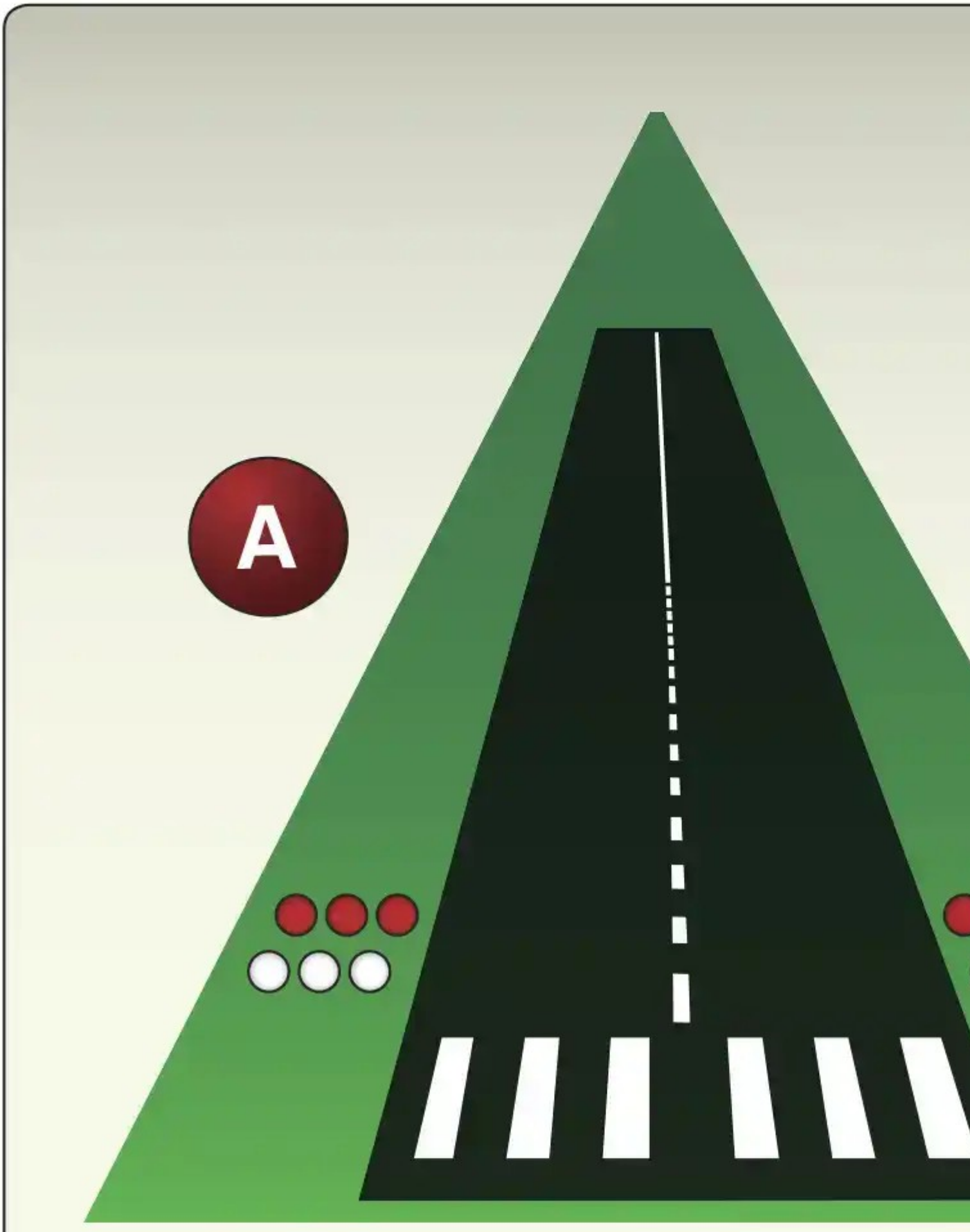
c) the Air Traffic Control tower is not in operation

51. (Refer to figure 47.) VASI lights as shown by illustration C indicate that the airplane is

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a) off course to the left
b) above the glide slope
c) below the glide slope

52. Position (navigation) lights on an aircraft are:

a) White for the left wingtip, green for the right wingtip, and red for the tail
b) Green for the left wingtip, red for the right wingtip, and white for the tail
c) Red for the left wingtip, green for the right wingtip, and white for the tail

53. Pre-takeoff briefing of passengers for a flight is the responsibility of

a) the right seat pilot
b) the pilot in command
c) all passengers

54. Excessively high engine temperatures will

a) cause loss of power, excessive oil consumption, and possible permanent internal engine damage
b) not appreciably affect an aircraft engine
c) cause damage to heat-conducting hoses and warping of the cylinder cooling fins

55. You must notify the NTSB immediately if the following occurs.

a) Fire of the primary aircraft while in a hangar which results in damage to other property of more than $25,000

b) In-flight fire

c) Ground fire resulting in fire equipment dispatch

56. (Refer to figure 52.) When approaching Lincoln Municipal from the west at noon for the purpose of landing, initial communications should be with

LINCOLN (LNK) 4 NW UTC−6(−
1219 B S4 **FUEL** 100LL, JET
NOTAM FILE LNK
RWY 18–36: H12901X200 (ASPH–CON
2S–175, 2D–400 HIRL
RWY 18: MALSR. PAPI(P4L)—GA 3.0
down.
RWY 36: MALSR. PAPI(P4L)—GA 3.0
RWY 14–32: H8649X150 (ASPH–CONC
2S–175, 2D–280 MIRL
RWY 14: REIL. VASI(V4L)—GA 3.0° T
RWY 32: VASI(V4L)—GA 3.0° TCH 5
Pole. 0.3% up.
RWY 17–35: H5800X100 (ASPH–CONC
HIRL 0.8% up S
RWY 17: REIL. PAPI(P4L)—GA 3.0° T
RWY 35: ODALS. PAPI(P4L)—GA 3.0
RUNWAY DECLARED DISTANCE INFORMATION
RWY 14: TORA–8649 TODA–8649
RWY 17: TORA–5800 TODA–5800
RWY 18: TORA–12901 TODA–1290
RWY 32: TORA–8649 TODA–8649

a) Minneapolis Center on 128.75 MHz
b) Lincoln Tower on 118.5 MHz
c) Lincoln Approach Control on 124.0 MHz

57. (Refer to Figure 59) You depart from Wood Co. airport (1G0 - area 5) and head northbound. You level off at 1,600' MSL under the Toledo Class C airspace to circle your house. The ADS-B system on your airplane was marked inoperative in the maintenance log. Is this flight legal?

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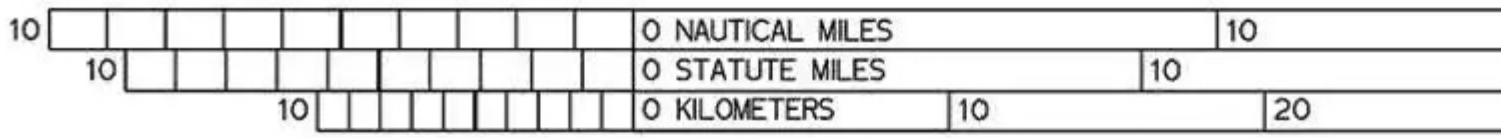
a) No - ADS-B Out equipment is required for flights under Class C airspace
b) No - ADS-B Out equipment must be operational for all flights in the U.S.
c) Yes - ADS-B Out is not required for this operation

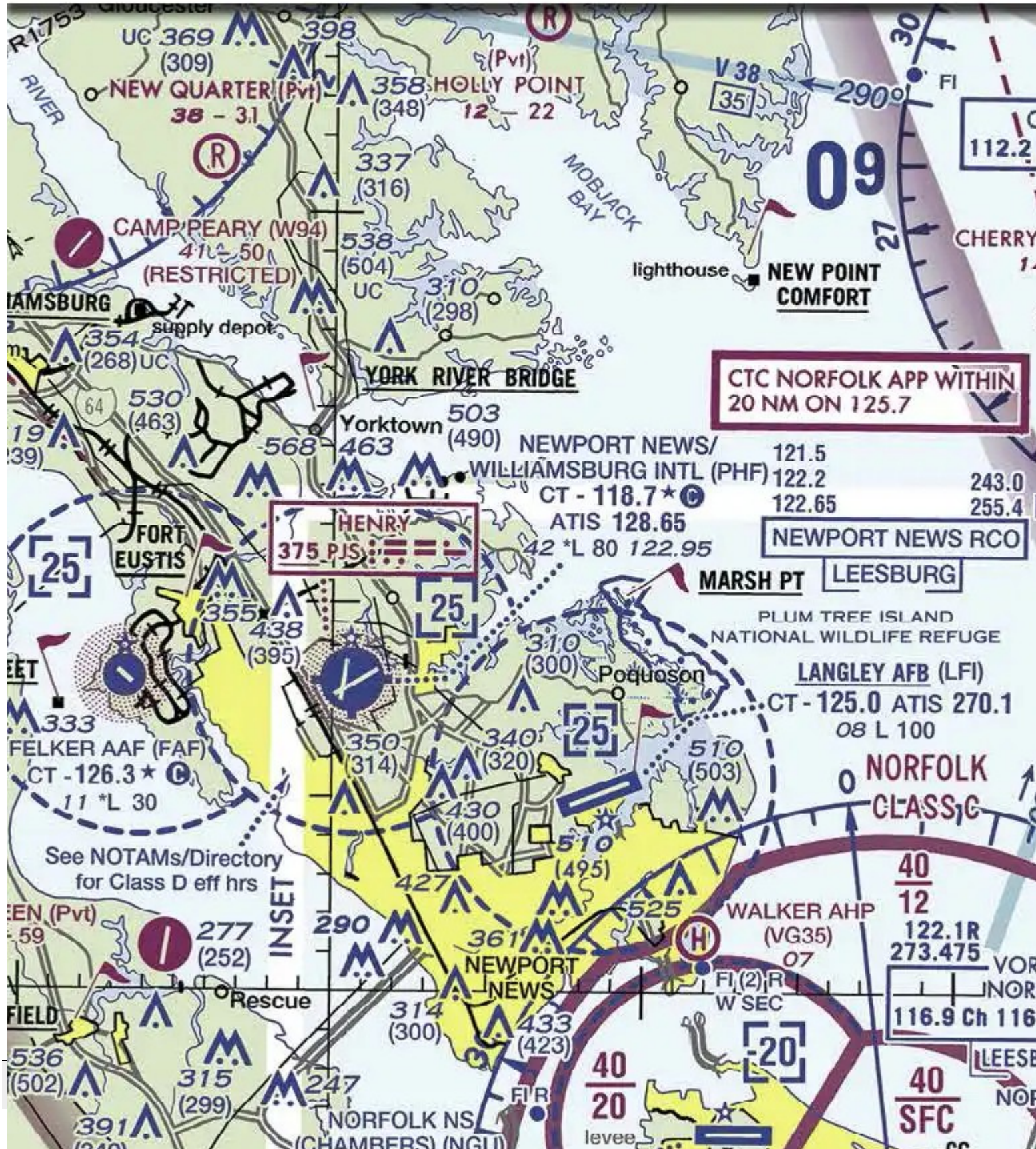
58. (Refer to figure 20.) En route to First Flight Airport (area 5), your flight passes over Hampton Roads Airport (area 2) at 1456 and then over Chesapeake Municipal at 1501. At what time should your flight arrive at First Flight? (NOTE: Sectional chart figures are not to scale in print or digital form; use the NM scale printed on the chart to measure distances)

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a) 1526
b) 1516
c) 1521

59. What should you do after landing at a non-towered airport?

a) Exit the runway and continue taxiing to the parking location
b) Exit the runway, ensure the entire airplane has crossed the runway holding position marking and make a position call that you are clear of the runway
c) Continue the landing rollout to the very end of the runway, before exiting a taxiway

60. When flying HAWK N666CB, the proper phraseology for initial contact with McAlester AFSS is

a) MC ALESTER RADIO, HAWK SIX SIX SIX CHARLIE BRAVO, RECEIVING ARDMORE VORTAC, OVER
b) MC ALESTER FLIGHT SERVICE STATION, HAWK NOVEMBER SIX CHARLIE BRAVO, RECEIVING ARDMORE VORTAC, OVER
c) MC ALESTER STATION, HAWK SIX SIX SIX CEE BEE, RECEIVING ARDMORE VORTAC, OVER

61. With certain exceptions, all aircraft within 30 miles of a Class B primary airport from the surface upward to 10,000 feet MSL must be equipped with

a) an operable VOR or TACAN receiver and an ADF receiver

b) an operable transponder having either Mode S or 4096-code capability with Mode C automatic altitude reporting capability, and ADS-B out equipment

c) instruments and equipment required for IFR operations

62. If the engine oil temperature and cylinder head temperature gauges have exceeded their normal operating range, the pilot may have been operating with

a) the mixture set too rich

b) higher-than-normal oil pressure

c) too much power and with the mixture set too lean

63. How is the stalling speed or minimum steady flight speed in the landing configuration symbolized?

a) VN0

b) VS0

c) Red radial line

64. Which technique should a pilot use to scan for traffic to the right and left during straight-and-level flight?

a) Continuous sweeping of the windshield from right to left

b) Systematically focus on different segments of the sky for short intervals

c) Concentrate on relative movement detected in the peripheral vision area

65. If the pitot tube and outside static vents become clogged, which instruments would be affected?

a) The altimeter, airspeed indicator, and vertical speed indicator

b) The altimeter, airspeed indicator, and turn-and-slip indicator

c) The altimeter, attitude indicator, and turn-and-slip indicator

66. Who is responsible for briefing passengers regarding the use of seat belts?

a) The right-seat pilot

b) Each passenger

c) The pilot-in-command

67. While on final approach for landing, an alternating green and red light followed by a flashing red light is received from the control tower. Under these circumstances, the pilot should

a) discontinue the approach, fly the same traffic pattern and approach again, and land

b) exercise extreme caution and abandon the approach, realizing the airport is unsafe for landing

c) abandon the approach, circle the airport to the right, and expect a flashing white light when the airport is safe for landing

68. What would be a symptom of hyperventilation?

a) A feeling of suffocation and drowsiness

b) Heightened awareness and feeling of well being

c) Decreased breathing rate and depth

69. A person may not act as a crewmember of a civil aircraft if alcoholic beverages have been consumed by that person within the preceding

a) 12 hours

b) 8 hours

c) 24 hours

70. How should a VFR flight plan be closed at the completion of the flight at a controlled airport?

a) The tower will automatically close the flight plan when the aircraft turns off the runway

b) The pilot must close the flight plan with the nearest FSS or other FAA facility upon landing

c) The tower will relay the instructions to the nearest FSS when the aircraft contacts the tower for landing

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

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