Exam simulation

FAA PPL(A) - Private Pilot Airplane - Slow Flight and Stalls

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STUDENT NAME:	DATE AND TIME:

01. During operations outside controlled airspace at altitudes of more than 1,200 feet AGL, but less than 10,000 feet MSL, the minimum flight visibility for VFR flight at night is

a) 5 miles
b) 3 miles
c) 1 mile

02. 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

03. What aircraft lights are you required to use when flying at night as a private pilot?

a) Position lights and anti-collision lights
b) Landing lights and anti-collision lights
c) Position lights and landing lights

04. 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

05. Advisory Circulars (ACs) are issued to inform the public of nonregulatory material:

a) And are not binding
b) And self-cancel after 1 year
c) But are binding

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06. The angle between the chord line of an airfoil and the relative wind is known as the angle of

a) attack

b) incidence

c) lift

07. On landing, your tire blows and the wheel is dented. What action is required to comply with NTSB Part 830?

a) An immediate notification must be filed by the operator of the aircraft with the nearest NTSB field office

b) No notification or report is required

c) A report must be filed with the nearest FAA field office within 7 days

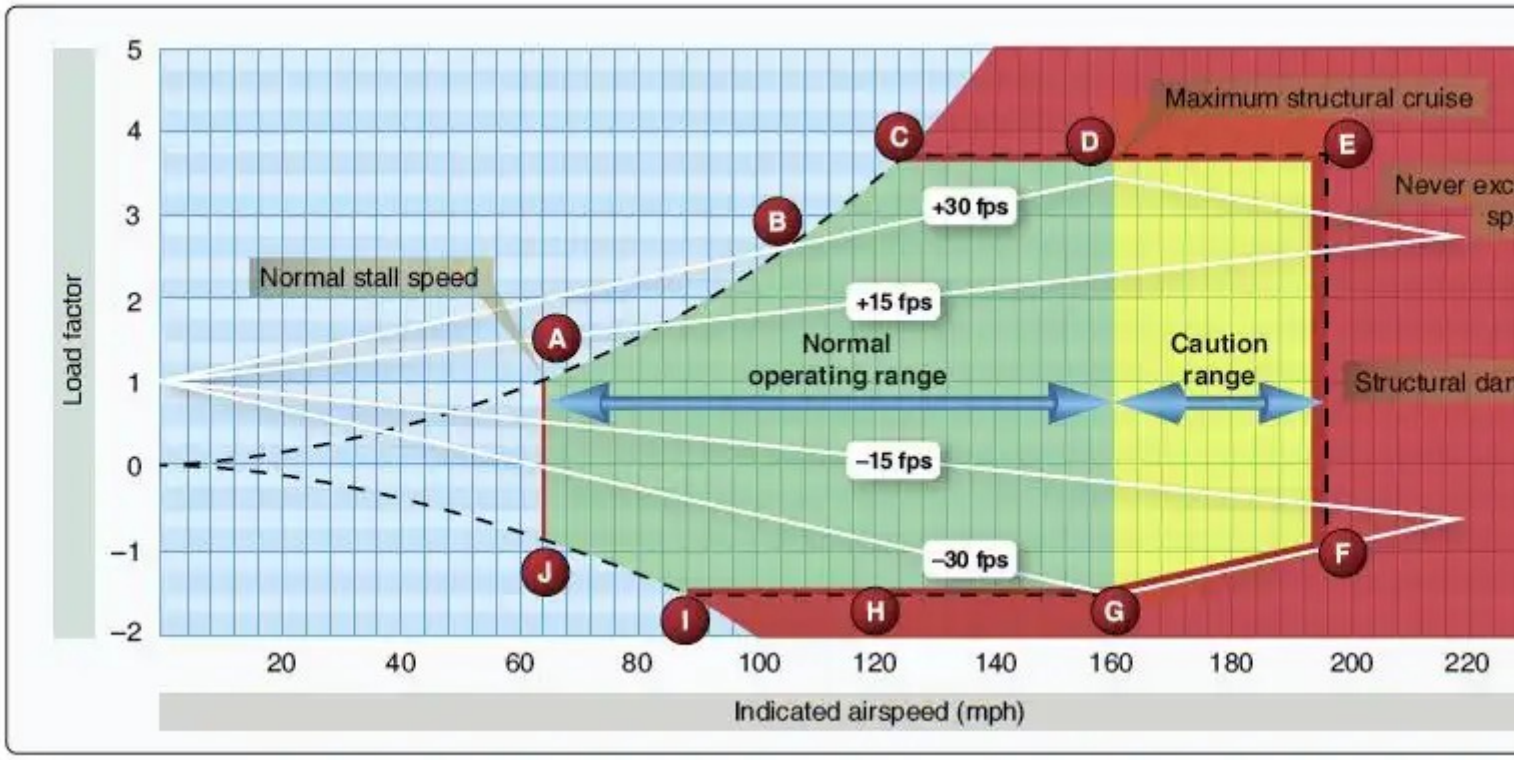
08. What is the maximum speed for performing steep turns?

a) Vne - never exceed speed

b) Vfe - maximum flaps extended speed

c) Va - maneuvering speed

09. (Refer to figure 72.) The positive limit load factor is represented by the



a) horizontal dashed line from C to point E
b) vertical solid line from D to G
c) vertical dashed line from E to F

10. VFR approaches to land at night should be accomplished

a) at a higher airspeed
b) the same as during daytime
c) with a steeper descent

11. On a turn from a northerly heading the compass will:

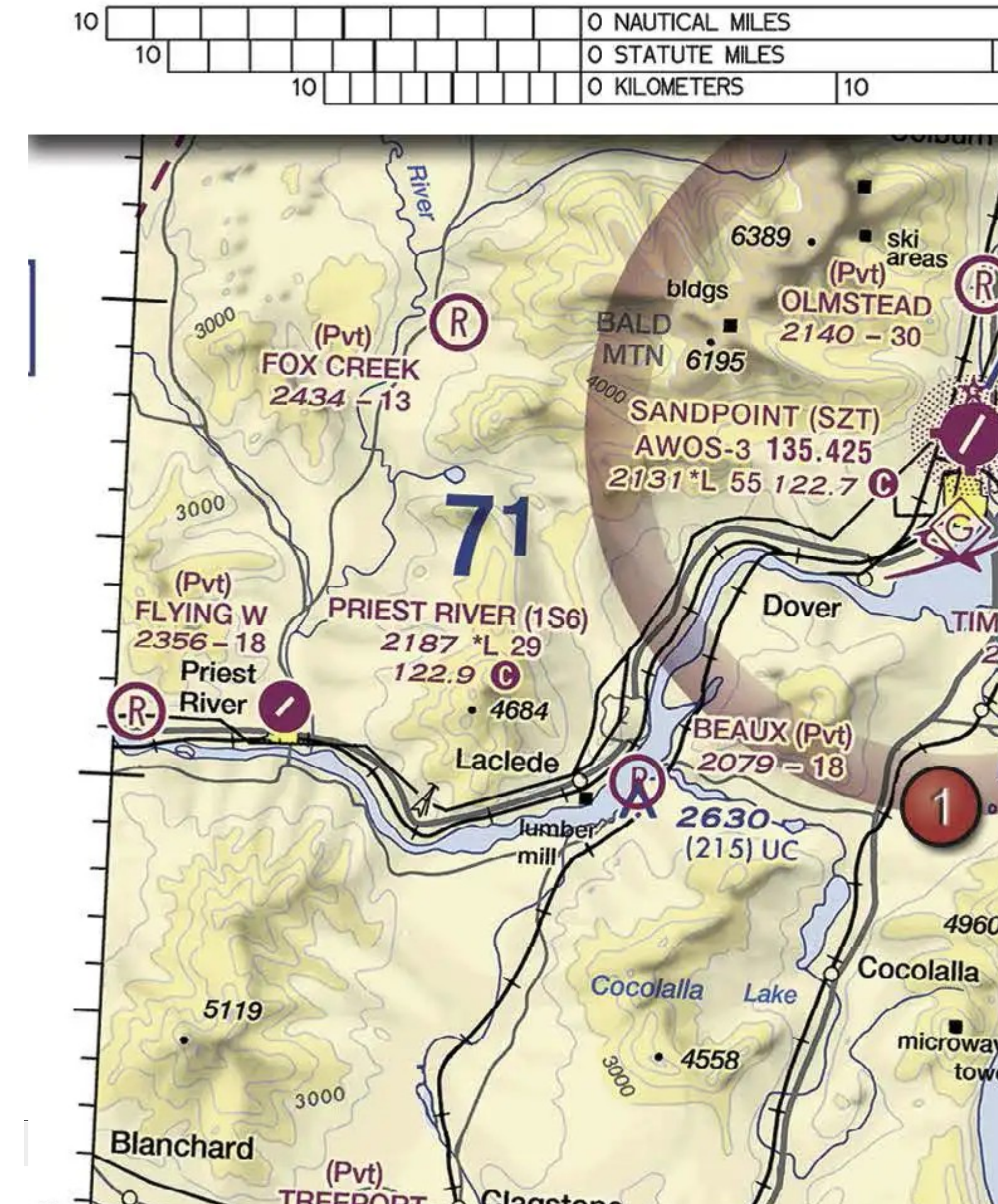
a) Be equal to the airplane’s heading
b) Lag behind the airplane
c) Will lead the airplane

12. (Refer to figure 22, area 2; and figure 31.) At Coeur D'Alene, which frequency should be used as a Common Traffic Advisory Frequency (CTAF) to self-announce position and intentions?

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a) 122.05 MHz
b) 122.1/108.8 MHz
c) 122.8 MHz

13. 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

14. How long does the Airworthiness Certificate of an aircraft remain valid?

a) As long as the aircraft is maintained and operated as required by Federal Aviation Regulations
b) Indefinitely, unless the aircraft suffers major damage
c) As long as the aircraft has a current Registration Certificate

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. In the Northern Hemisphere, a magnetic compass will normally indicate initially a turn toward the west if

a) an aircraft is accelerated while on a north heading
b) a left turn is entered from a north heading
c) a right turn is entered from a north heading

17. When flying through the lateral and vertical boundaries of Class C or B airspace, what additional equipment is your aircraft required to have installed, if any?

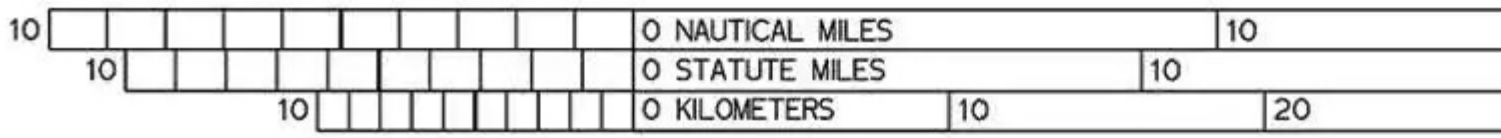
a) TCAS System
b) Mode C Transponder
c) ADS-B Out equipment

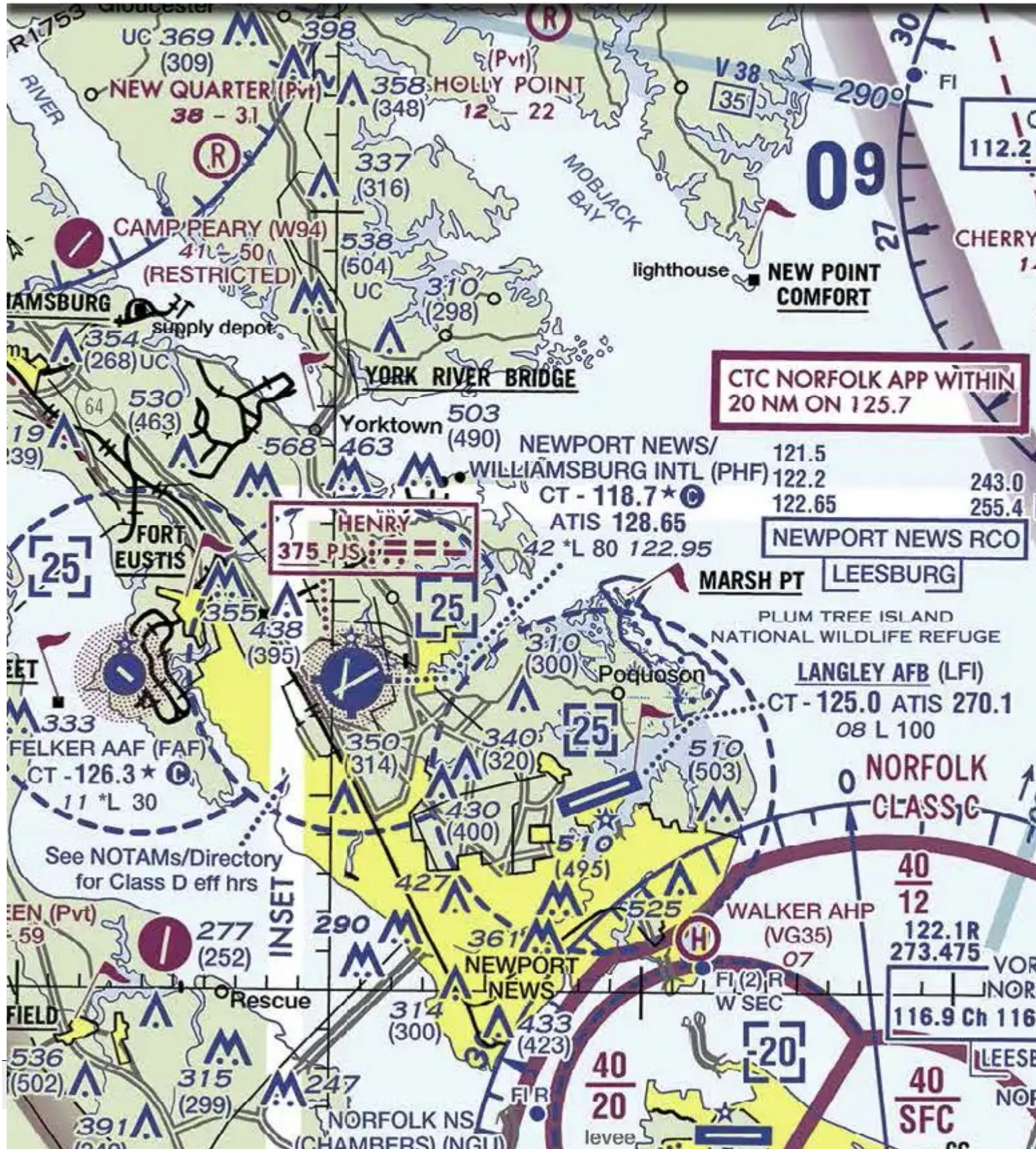
18. (Refer to figure 20.) En route to First Flight Airport (area 5), your flight passes over Hampton Roads Airport (area 2) at 1456 and then over Chesapeake Municipal at 1501. At what time should your flight arrive at First Flight? (NOTE: Sectional chart figures are not to scale in print or digital form;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

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a) 1526
b) 1516
c) 1521

19. 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

20. On a turn from south:

a) The compass will lag behind the airplane
b) The compass will match the exact heading
c) The compass exaggerates the rate of turn

21. Floating caused by the phenomenon of ground effect will be most realized during an approach to land when at

a) twice the length of the wingspan above the surface
b) less than the length of the wingspan above the surface
c) a higher-than-normal angle of attack

22. 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

23. Which best describes the flight conditions under which flight crewmembers are specifically required to keep their safety belts and shoulder harnesses fastened?

a) Safety belts during takeoff and landing; shoulder harnesses during takeoff and landing and while en route
b) Safety belts during takeoff and landing; shoulder harnesses during takeoff and landing
c) Safety belts during takeoff and landing and while en route; shoulder harnesses during takeoff and landing

24. While taxiing at the parking ramp, the nose gear, wheel, and tire are damaged by striking ground equipment. What action would be required to comply with 49 CFR Part 830?

a) No notification or report is required

b) Notify the NTSB within 10 days of the incident

c) Notify the FAA within 7 days of the incident

25. In what flight condition must an aircraft be placed in order to spin?

a) Partially stalled with one wing low

b) In a steep diving spiral

c) Stalled

26. 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

27. If an altimeter setting is not available before flight, to which altitude should the pilot adjust the altimeter?

a) The elevation of the departure area

b) Pressure altitude corrected for nonstandard temperature

c) The elevation of the nearest airport corrected to mean sea level

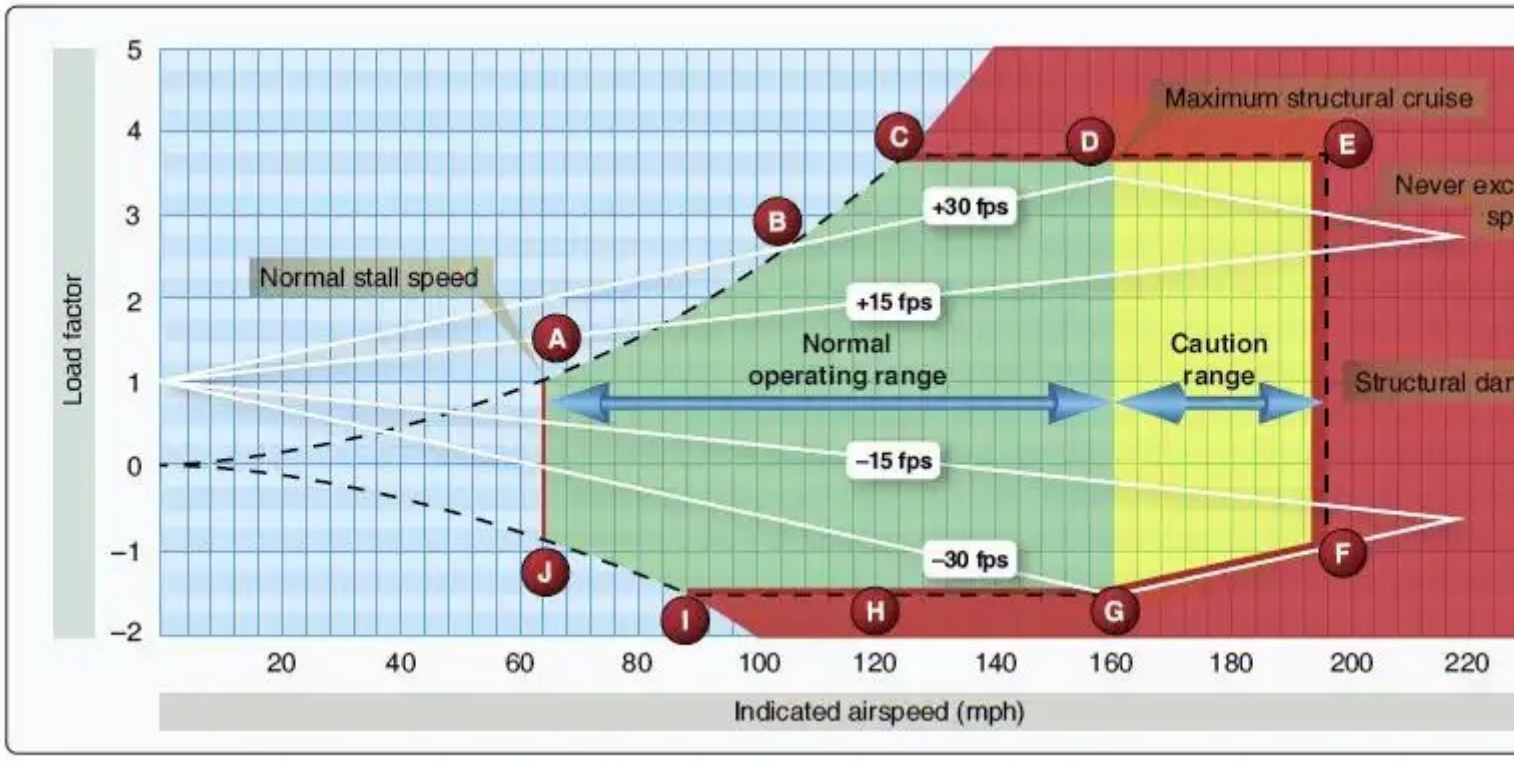
28. What is the best course of action right after the engine quits in flight?

a) Use the emergency checklist if practical

b) Complete the emergency checklist immediately

c) Call ATC and declare an emergency

29. (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

30. Why are reciprocating engines preferred over other types for small aircraft?

a) They provide less drag over other engine types
b) They use less fuel than other designs
c) They are less expensive to operate and they are simple in design

31. What is the most effective way to use the eyes during night flight?

a) Concentrate directly on each object for a few seconds
b) Scan slowly to permit off-center viewing
c) Look only at far away, dim lights

32. 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

33. 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

34. How will the wind affect your engine-out gliding distance?

a) A headwind increases your gliding distance

b) A tailwind increases the gliding distance

c) A tailwind decreases the gliding distance

35. 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

36. If the control tower uses a light signal to direct a pilot to give way to other aircraft and continue circling, the light will be

a) flashing red

b) steady red

c) alternating red and green

37. You must turn on your anti-collision lights:

a) Day and night, except when the pilot-in-command determines that they constitute a hazard to safety

b) At night or in inclement weather

c) At night when the visibility is less than three miles and flying in Class B airspace

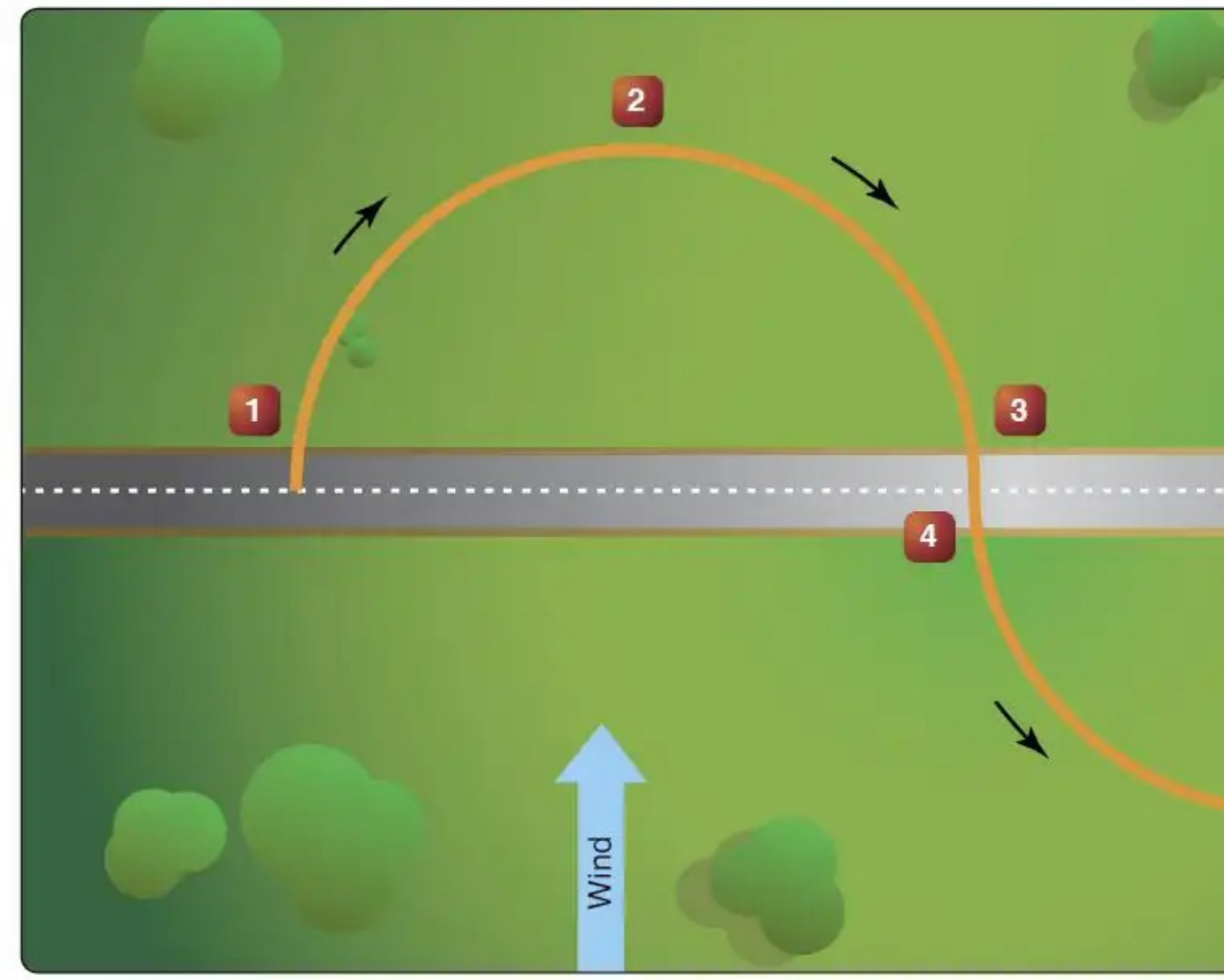
38. While operating under BasicMed as pilot in command, the aircraft:

a) Must be limited to 12 seats and not certified for more than 12,500 lbs

b) Must be limited to 6 seats and not certified for more than 6,000 lbs

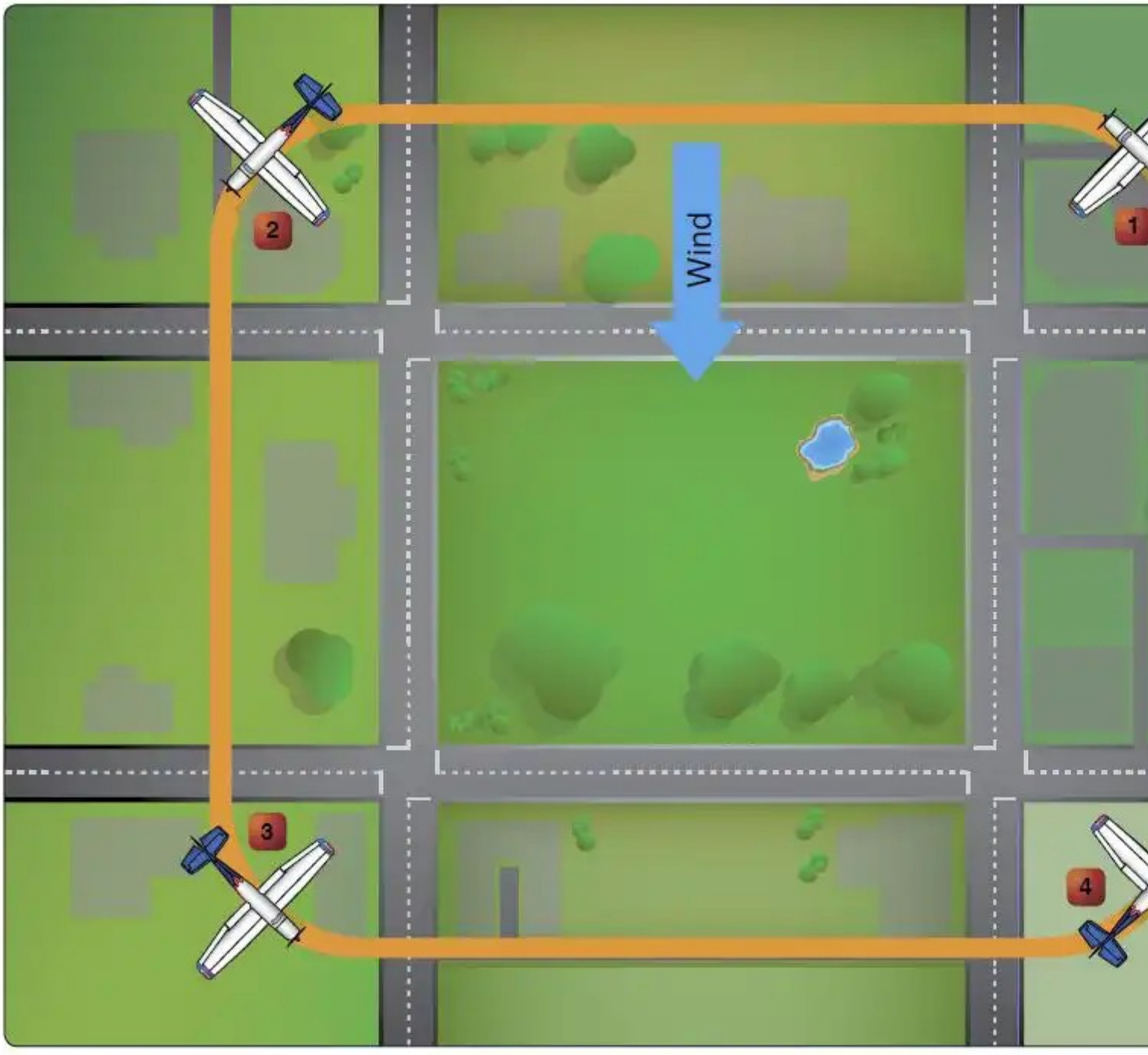
c) Must be limited to 5 seats and not certified for more than 6,000 lbs

39. (Refer to figure 66.) While practicing S-turns, a consistently smaller half-circle is made on one sid completed before crossing the road or reference line. This would most likely occur in turn



a) 1-2-3 because the bank is decreased too rapidly during the latter part of the turn
b) 4-5-6 because the bank is increased too slowly during the latter part of the turn
c) 4-5-6 because the bank is increased too rapidly during the early part of the turn

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

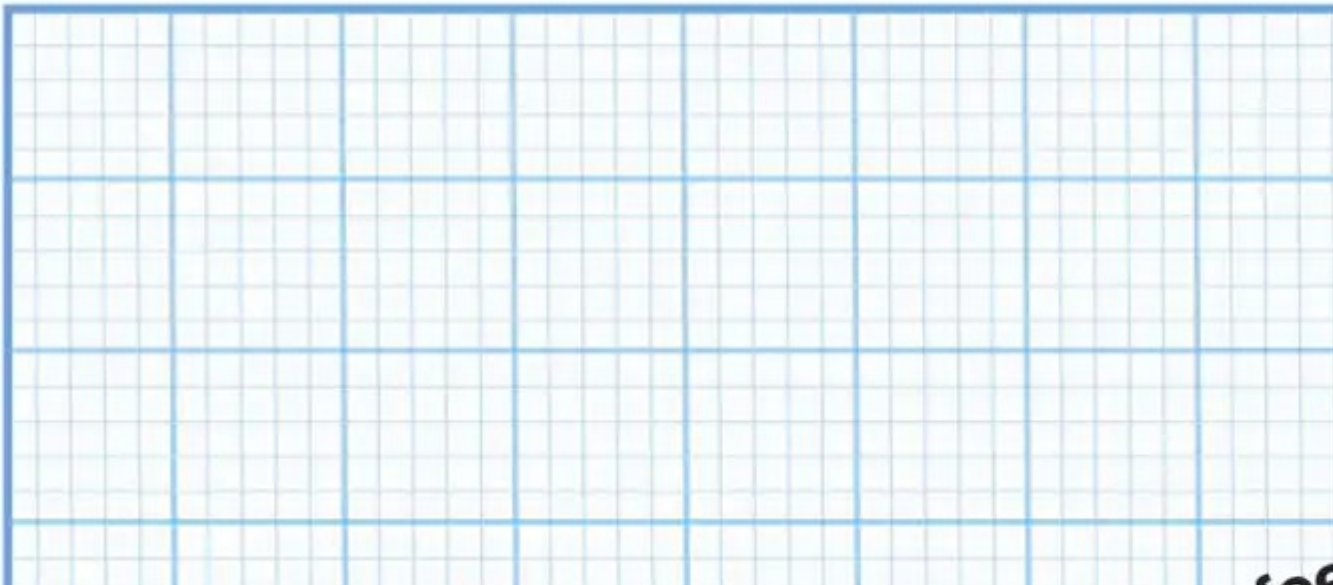


a) Corners 1 and 2
b) Corners 2 and 4
c) Corners 1 and 4

41. (Refer to Figure 40.) What is the approximate ground roll distance necessary for takeoff under the following conditions? OAT - 90°F, Pressure altitude - 4,000 ft, Takeoff weight - 2,600 lb, Headwind component - 20 kts

Example:

OAT	15 °C (59 °F)
Pressure altitude	5,650 feet
Takeoff weight	2,950 lb
Headwind comp.	9.0 knots
Ground roll	1,375 feet
Total distance over a 50 feet obstacle	2,300 feet
Takeoff speed at	
Lift-off	66 knots (76 mph)
50 feet	72 knots (83 mph)



a) 800 feet
b) 600 feet
c) 1,000 feet

42. An electrical system failure (battery and alternator) occurs during flight. In this situation, you would

a) probably experience failure of the engine ignition system, fuel gauges, aircraft lighting system, and avionics equipment
b) experience avionics equipment failure
c) probably experience engine failure due to the loss of the engine-driven fuel pump and also experience failure of the radio equipment, lights, and all instruments that require alternating current

43. What input is required to maintain altitude during steep turns?

a) Aileron in the opposite direction of the turn
b) Increase power
c) Back pressure on the yoke

44. In order to determine your distance flown, you would multiply time by:

a) Groundspeed
b) Indicated airspeed
c) Equivalent airspeed

45. When the course deviation indicator (CDI) needle is centered during an omnireceiver check using a VOR test signal (VOT), the omnibearing selector (OBS) and the TO/FROM indicator should read

a) 0° TO or 180° FROM, regardless of the pilot's position from the VOT
b) 0° FROM or 180° TO, regardless of the pilot's position from the VOT
c) 180° FROM, only if the pilot is due north of the VOT

46. How many times should a pilot key the mic on a specified frequency at a non-towered airport to activate medium-intensity lighting?

a) 5 times within 5 seconds

b) 3 times within 5 seconds

c) 7 times within 5 seconds

47. The definition of nighttime is

a) the time between the end of evening civil twilight and the beginning of morning civil twilight

b) 1 hour after sunset to 1 hour before sunrise

c) sunset to sunrise

48. With respect to the certification of aircraft, which is a class of aircraft?

a) Transport, restricted, provisional

b) Normal, utility, acrobatic, limited

c) Airplane, rotorcraft, glider, balloon

49. While operating in class D airspace, each pilot of an aircraft approaching to land on a runway served by a visual approach slope indicator (VASI) shall

a) maintain a 3° glide until approximately 1/2 mile to the runway before going below the VASI

b) stay high until the runway can be reached in a power-off landing

c) maintain an altitude at or above the glide slope until a lower altitude is necessary for a safe landing

50. 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

51. An ATC radar facility issues the following advisory to a pilot flying north in a calm wind: ''TRAFFIC 9 O'CLOCK, 2 MILES, SOUTHBOUND...'' Where should the pilot look for this traffic?

a) South

b) North

c) West

52. Flight crewmembers are required to keep their safety belts and shoulder harnesses fastened during

a) takeoffs and landings

b) flight in turbulent air

c) all flight conditions

53. In order to find pictorial explanations of airport signs and markings, which publication would you consult?

a) Advisory Circulars (ACs) under subject number 90

b) Chart Supplements

c) Aeronautical Information Manual (AIM)

54. An aircraft leaving ground effect during takeoff will

a) experience a reduction in ground friction and require a slight power reduction

b) experience an increase in induced drag and a decrease in performance

c) require a lower angle of attack to maintain the same lift coefficient

55. The possibility of carburetor icing exists even when the ambient air temperature is as

a) high as 70 °F and the relative humidity is high

b) high as 95 °F and there is visible moisture

c) low as 0 °F and the relative humidity is high

56. What is the load factor on an airplane flying a 45 degree steep turn at a level altitude?

a) 1.4 Gs

b) 2.4 Gs

c) 2.0 Gs

57. The greatest vortex strength occurs when the generating aircraft is

a) heavy, dirty, and fast

b) heavy, clean, and slow

c) light, dirty, and fast

58. When are non-rechargeable batteries of an emergency locator transmitter (ELT) required to be replaced?

a) Every 24 months

b) When 50 percent of their useful life expires

c) At the time of each 100-hour or annual inspection

59. What action, if any, is appropriate if the pilot deviates from an ATC instruction during an emergency and is given priority?

a) Take no special action since you are pilot in command

b) File a detailed report within 48 hours to the chief of the appropriate ATC facility, if requested

c) File a report to the FAA Administrator, as soon as possible

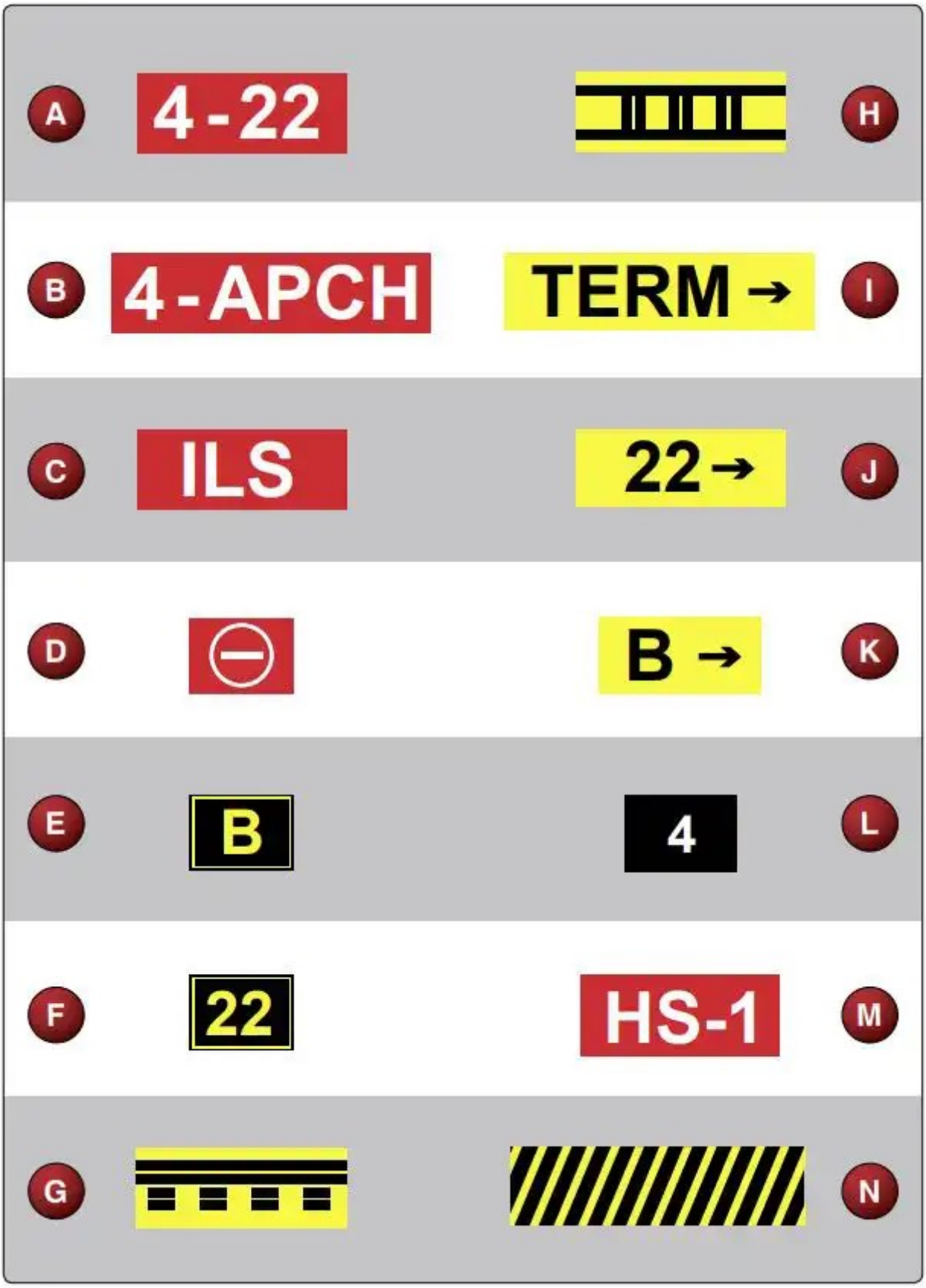
60. When approaching to land at an airport, without an operating control tower, in Class G airspace, the pilot should

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

61. (Refer to figure 65) After landing, the airplane is completely clear of the runway when:


A
4-22
H
B
4-APCH
TERM →
I
C
ILS
22 →
J
D
B →
K
E
B
4
L
F
22
HS-1
M
G
N

a) The aircraft is completely past the solid lines of the marking at location G

b) The sign at location E is in view

c) The aircraft is completely past the dashed lines of the marking at location G

62. The four forces acting on an airplane in flight are

a) lift, weight, gravity, and thrust
b) lift, weight, thrust, and drag
c) lift, gravity, power, and friction

63. ADS-B Out equipment is required when flying:

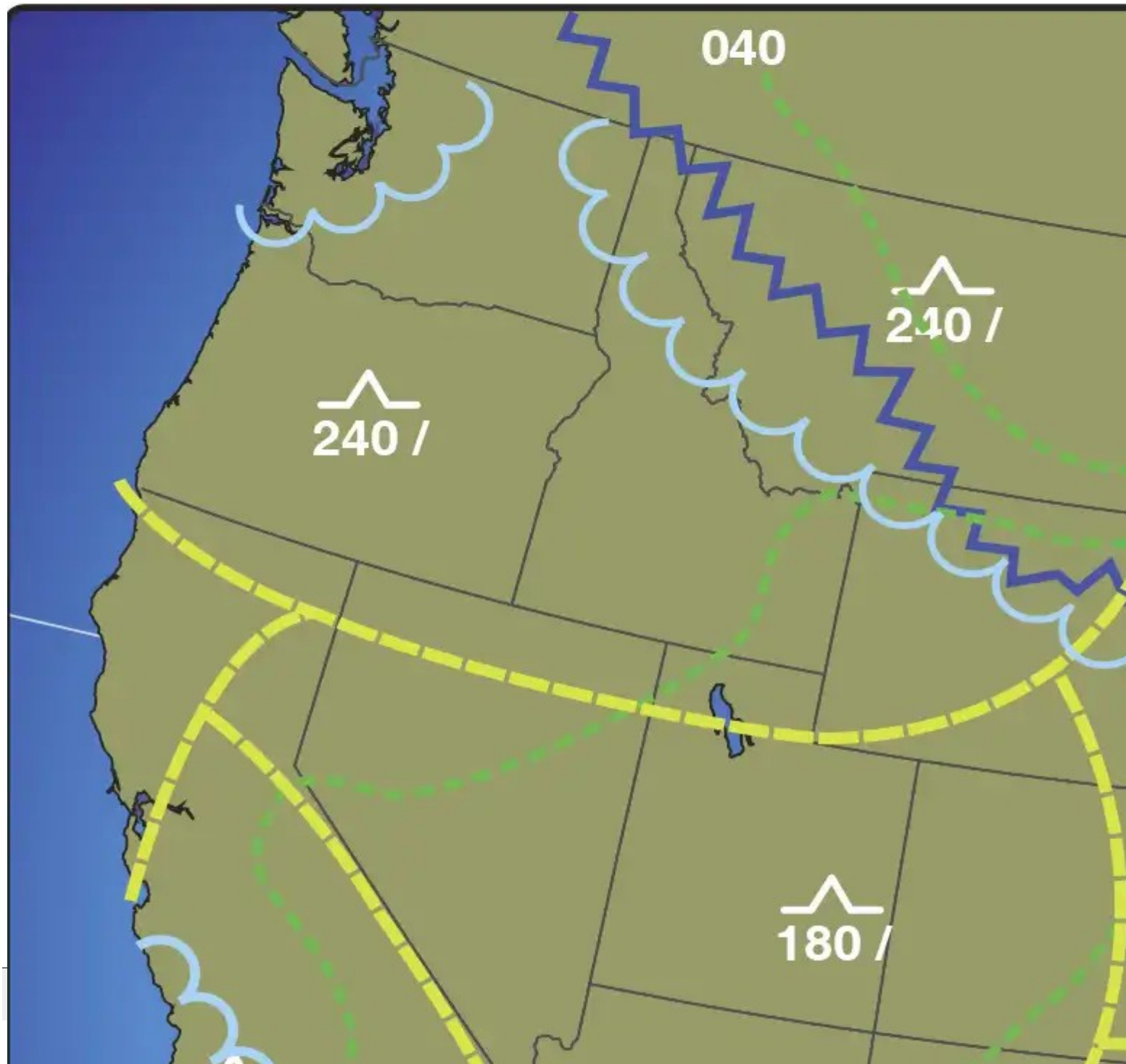
a) Below 10,000' MSL in Class E airspace over the contiguous U.S.
b) In Class E airspace at and above 3,000' MSL over the Gulf of Mexico from the U.S. coastline out to 12 NM
c) In Class E airspace at the surface

64. Airport taxiway edge lights are identified at night by

a) alternate red and green lights
b) white directional lights
c) blue omnidirectional lights

65. (Refer to figure 19.) At what altitude is the freezing level over the middle of Florida on the 12-hour Significant Weather Prognostic Chart?

Appendix 2



a) 12,000 feet
b) 4,000 feet
c) 8,000 feet

66. The aircraft that always has right-of-way is the:

a) Glider
b) Aircraft in distress
c) Balloon

67. On taxi, takeoff, and landing:

a) Only the Pilot-in Command must have fastened a seatbelt and shoulder harness
b) All persons in an airplane must have a seatbelt and shoulder harness fastened
c) Only front seat passengers must have fastened a seatbelt and shoulder harness

68. What is the critical angle of attack?

a) The angle of attack that will achieve the greatest climb speed at a given altitude

b) The pitch angle that will create the best climb performance

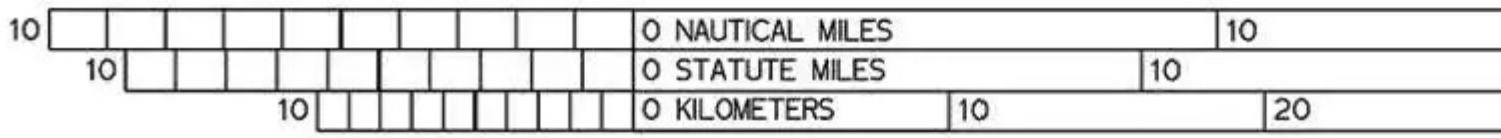
c) The point at which the wing will stall

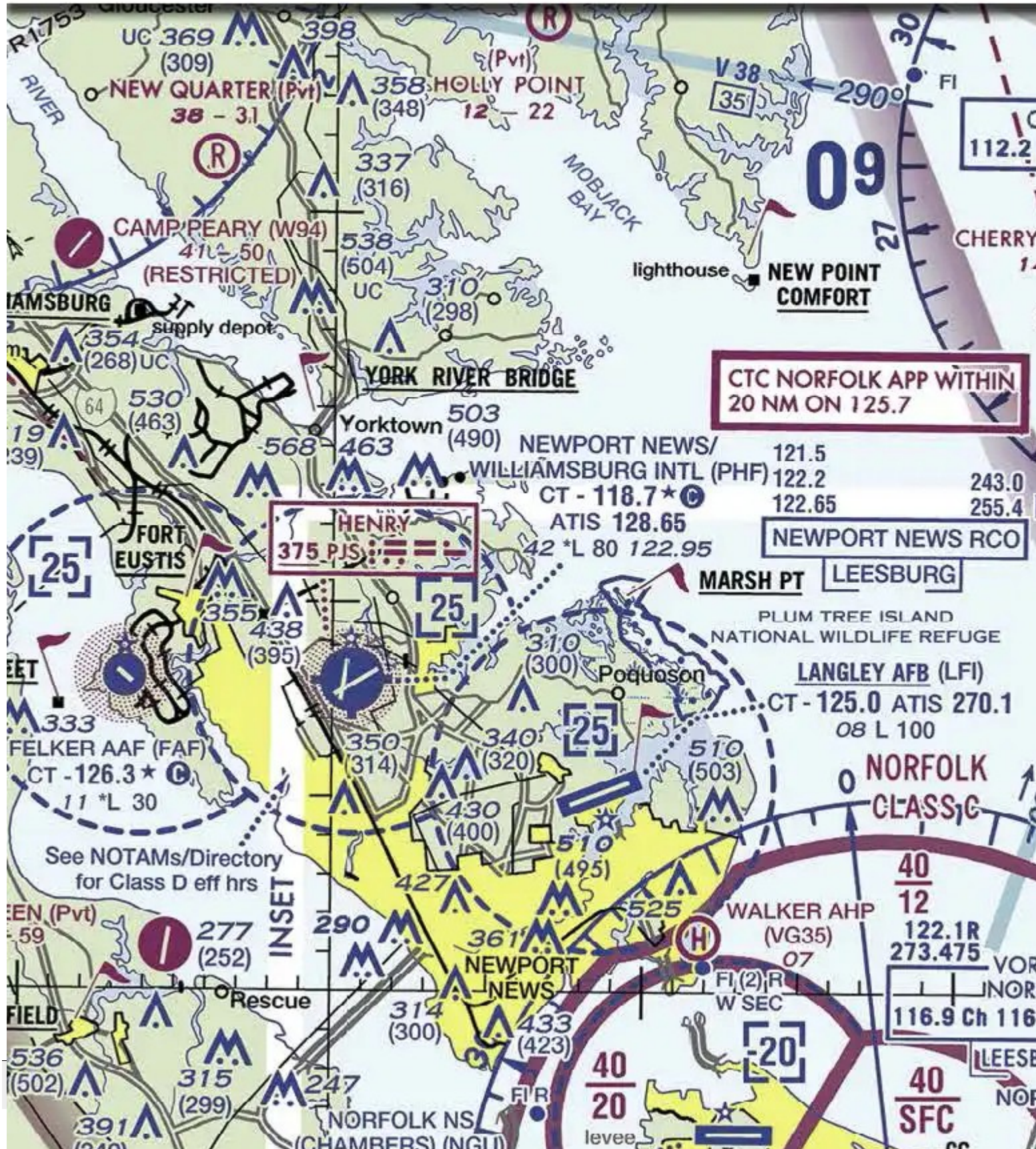
69. (Refer to figure 20, area 2.) The flag symbol at Lake Drummond represents a

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a) compulsory reporting point for Norfolk Class C airspace
b) visual checkpoint used to identify position for initial callup to Norfolk Approach Control
c) compulsory reporting point for Hampton Roads Airport

70. The magnetic compass:

a) Needs electrical current to operate
b) Is self powered
c) Needs vacuum power to work

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Response Scheme

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

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

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