

Exam simulation

FAA PPL(A) - Private Pilot Airplane, 60 questions on 120 minutes!



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STUDENT NAME:

DATE AND TIME:

01. 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

02. 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

03. 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

04. 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

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

- a) Groundspeed
- b) Indicated airspeed
- c) Equivalent airspeed

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06. During the takeoff roll, you observe a lower RPM than normal. How should you proceed?

- a) Abort the takeoff
- b) Continue the takeoff
- c) Rotate at a higher than normal speed

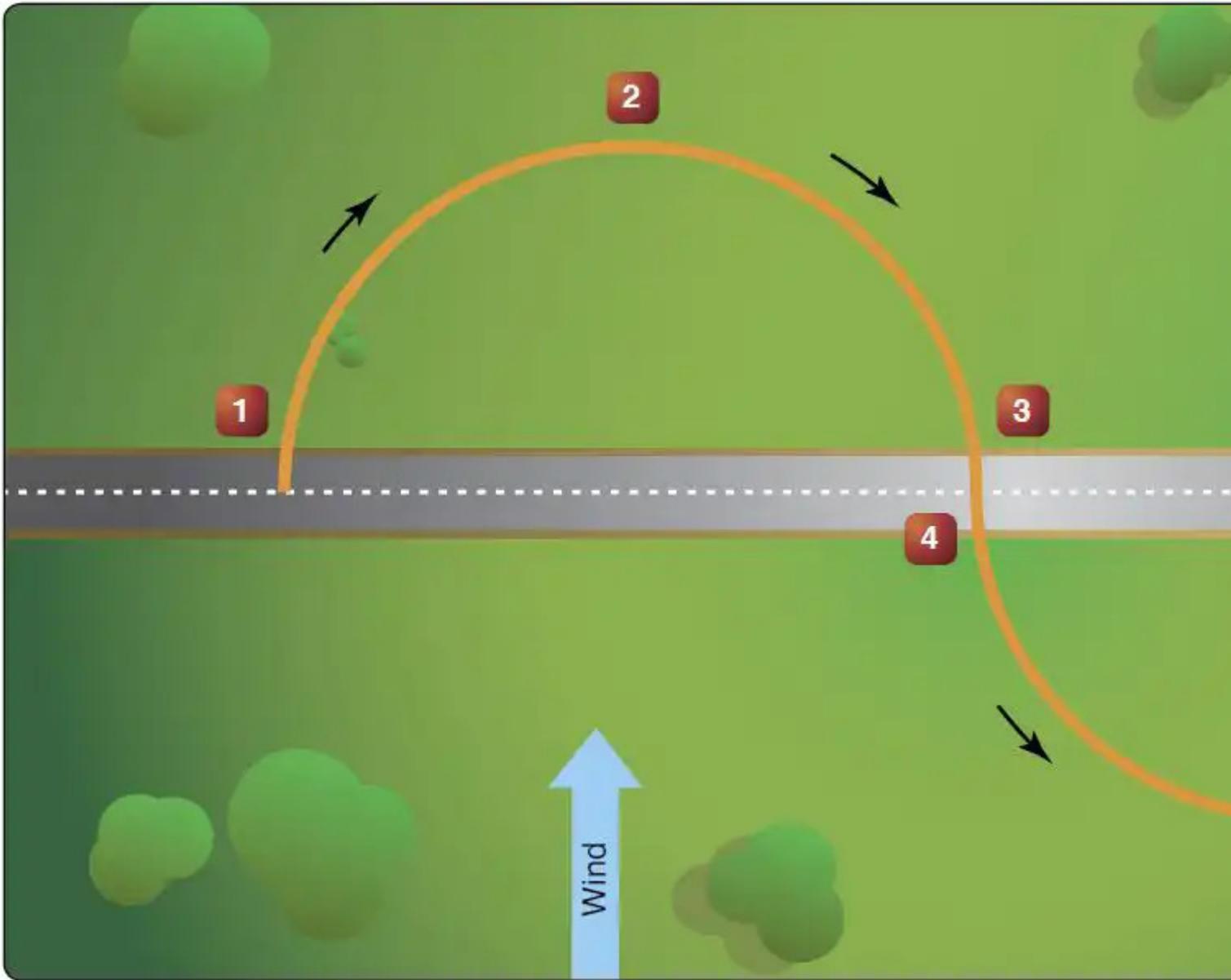
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07. (Refer to figure 66.) While practicing S-turns, a consistently smaller half-circle is made on one side of the road than on the other side of the road or reference line. This would most likely occur in turn



- 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

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08. In slow flight, prior to a stalled condition:

- a) The nose of the airplane begins to bounce around the horizon
- b) The noise of the propeller increases
- c) The controls start to feel mushy—not as responsive

09. A stabilized approach is one where the pilot:

- a) Keeps adjusting the pitch attitude to maintain a constant speed to the runway
- b) Keeps adjusting the speed to maintain a constant pitch attitude toward the runway
- c) Maintains a constant descent angle to a fixed point on the runway

10. What preparation should a pilot make to adapt the eyes for night flying?

- a) Avoid red lights at least 30 minutes before the flight
- b) Wear sunglasses after sunset until ready for flight
- c) Avoid bright white lights at least 30 minutes before the flight

11. What is the difference between a normal landing and a crosswind landing?

- a) Aileron up on the upwind wing
- b) Aileron down on the upwind wing
- c) Aileron up on the downwind wing

12. You must notify the NTSB immediately if the following occurs:

- a) Flight through a Prohibited Area without an ATC clearance
- b) In-flight roll upset greater than 90° of bank
- c) The inability of any required flight crewmember to perform normal flight duties as a result of injury or illness

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

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

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14. What is the purpose of the runway/runway hold position sign?

- a) Denotes entrance to runway from a taxiway
- b) Denotes intersecting runways
- c) Denotes area protected for an aircraft approaching or departing a runway

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

- a) V_{ne} - never exceed speed
- b) V_{fe} - maximum flaps extended speed
- c) V_a - maneuvering speed

16. Maneuvering speed is:

- a) The top of the green arc on the airspeed indicator
- b) Represented by the red line on the airspeed indicator
- c) Not marked on the airspeed indicator

17. (Refer to figure 23, area 3.) The top of the group obstruction approximately 11 nautical miles from the Savannah VORTAC on the 008° radial is

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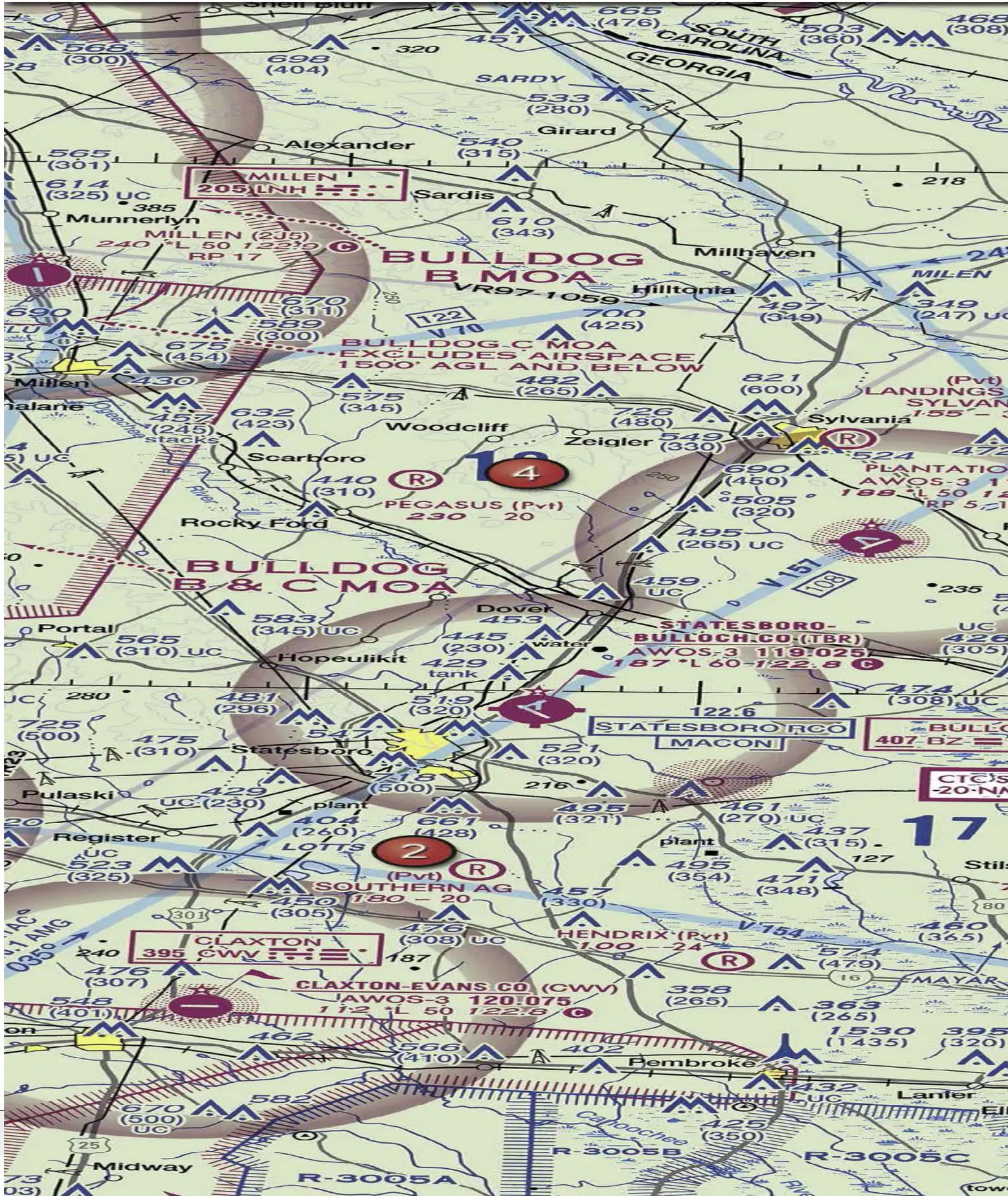
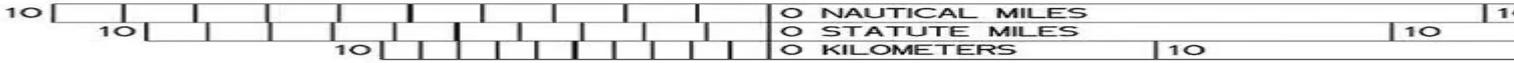
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- a) 310 feet AGL
- b) 454 feet MSL
- c) 432 feet MSL

18. The order of operation regarding the strokes of a typical four-stroke per cycle airplane engine is:

- a) Intake, compression, power, and exhaust
- b) Compression, intake, power, and exhaust
- c) Power, compression, intake, and exhaust

19. 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

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

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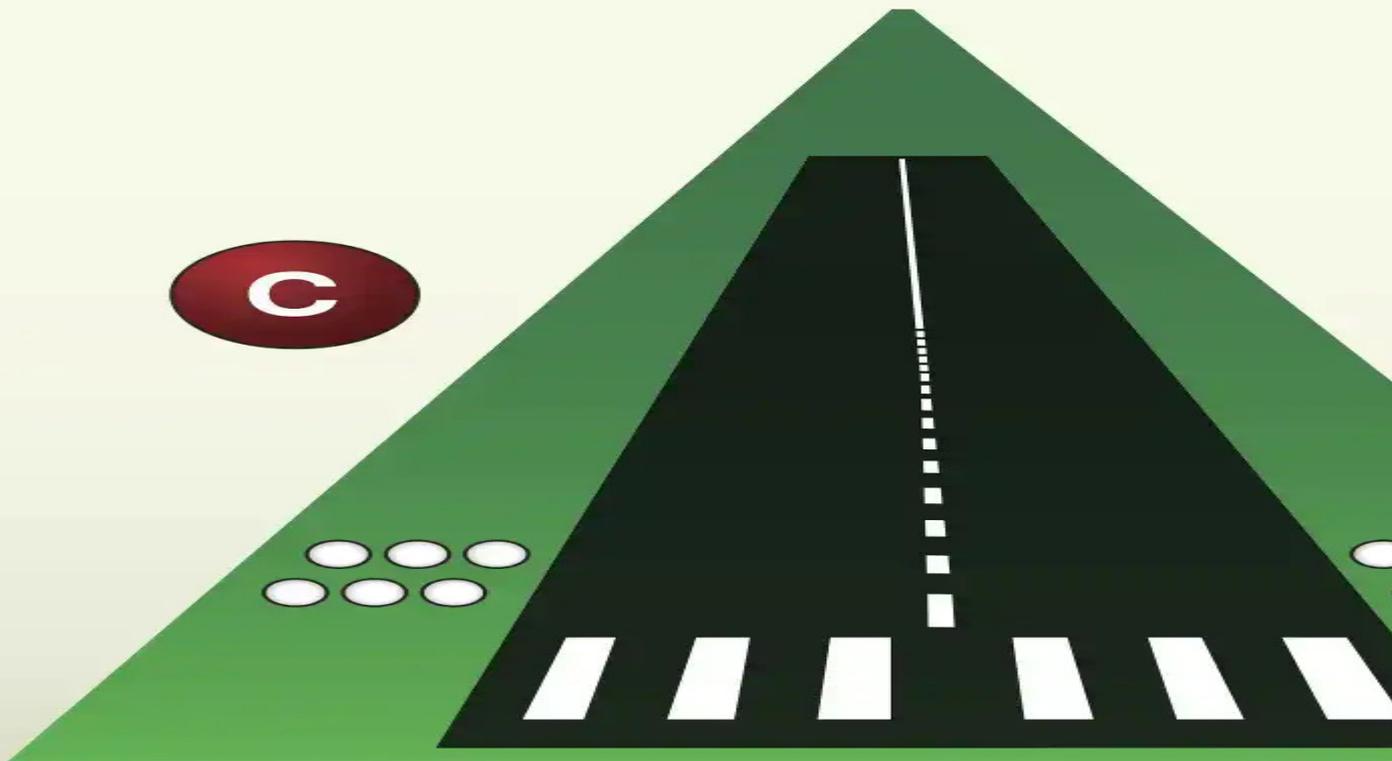
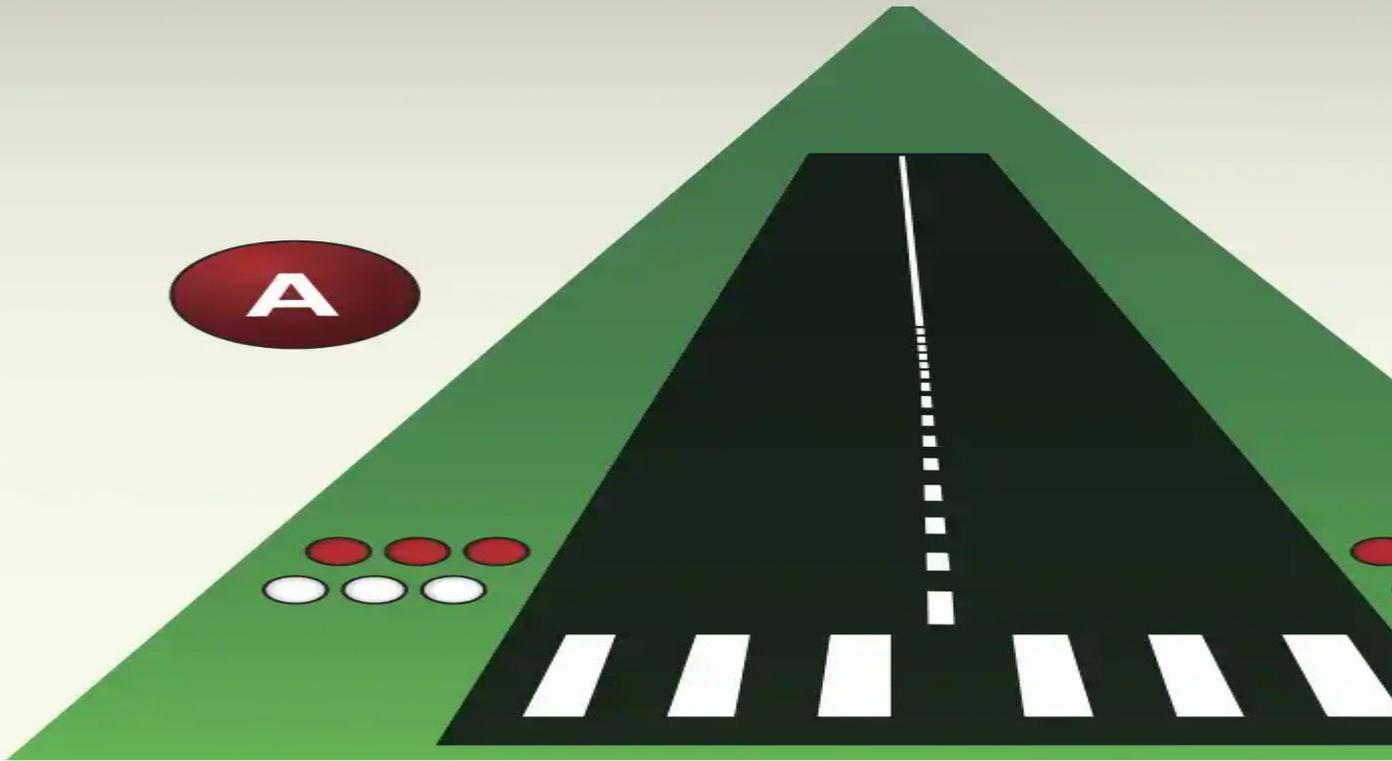
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- a) off course to the left
- b) above the glide slope
- c) below the glide slope

21. 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

22. 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

23. 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

24. During a night flight, you observe a steady red 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 crossing to the left
- b) The other aircraft is approaching head-on
- c) The other aircraft is crossing to the right

25. The presence of carburetor ice in an aircraft equipped with a fixedpitch propeller can be verified by applying carburetor heat and noting

- a) a decrease in RPM and then a constant RPM indication
- b) an increase in RPM and then a gradual decrease in RPM
- c) a decrease in RPM and then a gradual increase in RPM

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26. Which in-flight advisory would contain information on severe icing not associated with thunderstorms?

- a) AIRMET
- b) Convective SIGMET
- c) SIGMET

27. A slightly high glide slope indication from a precision approach path indicator is

- a) two white lights and two red lights
- b) three white lights and one red light
- c) four white lights

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

- a) VNO
- b) VS0
- c) Red radial line

29. Can you fly VFR with an expired GPS database?

- a) No, since a GPS will not function without a current GPS database
- b) Yes, but disregard the moving map display when making critical navigation decisions
- c) No, a current GPS database is required when using it for any type of navigation guidance

30. One purpose of the dual ignition system on an aircraft engine is to provide for

- a) uniform heat distribution
- b) balanced cylinder head pressure
- c) improved engine performance

31. Most U.S. built aircraft engines rotate the propeller clockwise, as viewed from the pilot's seat. When the aircraft's wheels are on the ground during the takeoff roll, torque reaction causes:

- a) More weight to be placed on the left main landing gear
- b) More weight to be placed on the right main landing gear
- c) There is no torque reaction as long as the airplane's wheels are on the ground

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32. 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

33. 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

34. What is ground effect?

- a) The result of the interference of the surface of the Earth with the airflow patterns about an airplane
- b) The result of the disruption of the airflow patterns about the wings of an airplane to the point where the wings will no longer support the airplane in flight
- c) The result of an alteration in airflow patterns increasing induced drag about the wings of an airplane

35. 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

36. 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

37. The lateral dimensions of Class D airspace are based on

- a) 5 statute miles from the geographical center of the primary airport
- b) the instrument procedures for which the controlled airspace is established
- c) the number of airports that lie within the Class D airspace

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38. 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

39. What is wake turbulence?

- a) The counter rotating vortices off the wingtips of an airplane generating lift
- b) The air trailing behind an aircraft due to its prop wash while on the ground
- c) The air trailing behind an aircraft due to its prop wash in flight

40. Which is the correct traffic pattern departure procedure to use at a non-towered airport?

- a) Make all turns to the left
- b) Depart in any direction consistent with safety, after crossing the airport boundary
- c) Comply with any FAA traffic pattern established for the airport

41. To properly purge water from the fuel system of an aircraft equipped with fuel tank sumps and a fuel strainer quick drain, it is necessary to drain fuel from the

- a) fuel strainer drain and the fuel tank sumps
- b) lowest point in the fuel system
- c) fuel strainer drain

42. Which initial action should a pilot take prior to entering Class C airspace?

- a) Contact approach control on the appropriate frequency
- b) Contact the FSS for traffic advisories
- c) Contact the tower and request permission to enter

43. 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

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44. 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

45. The best method to use when looking for other traffic at night is to

- a) look to the side of the object and scan slowly
- b) look to the side of the object and scan rapidly
- c) scan the visual field very rapidly

46. What is the minimum visibility for a pilot to receive a land and hold short (LAHSO) clearance?

- a) 3 statute miles
- b) 3 nautical miles
- c) 1 statute mile

47. 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

48. 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

49. 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

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50. 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

51. 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

52. The 'No Entry' sign identifies

- a) paved area where aircraft entry is prohibited
- b) an area that does not continue beyond intersection
- c) the exit boundary for the runway protected area

53. Which aileron positions should a pilot generally use when taxiing in strong quartering headwinds?

- a) Ailerons neutral
- b) Aileron down on the side from which the wind is blowing
- c) Aileron up on the side from which the wind is blowing

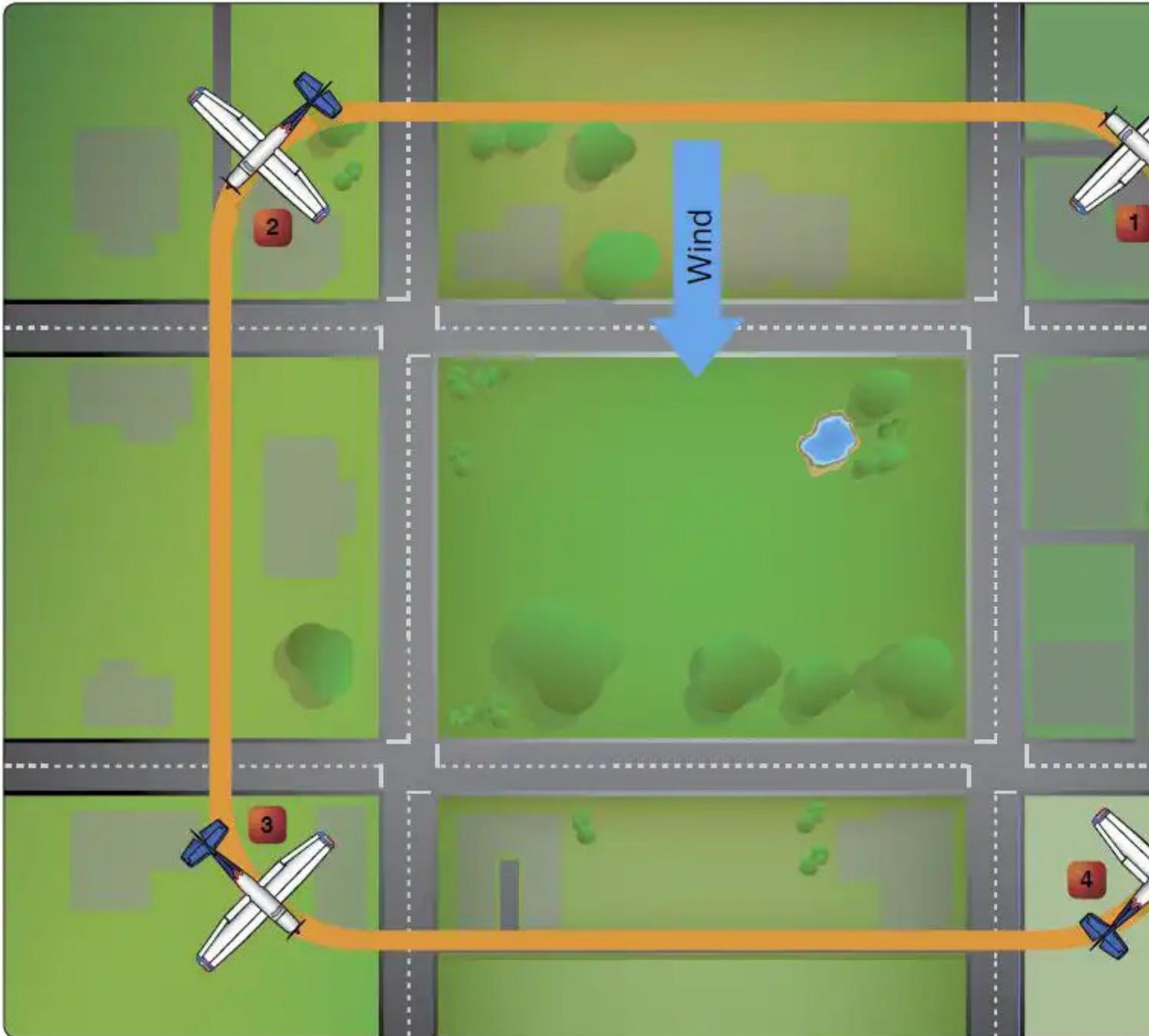
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54. When flying the crosswind leg of a rectangular course the airplane must be:



- a) Flown without any crab
- b) Crabbed into the wind
- c) Crabbed away from the wind

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55. During a spin to the left, which wing(s) is/are stalled?

- a) Only the left wing is stalled
- b) Both wings are stalled
- c) Neither wing is stalled

56. 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

57. A stall occurs when:

- a) The smooth airflow over the wing becomes turbulent reducing lift
- b) The airplane's speed is too slow for straight and level flight
- c) The nose of the airplane is too high above the horizon

58. What will happen during takeoff if you attempt to leave ground effect without sufficient airspeed?

- a) The airplane will experience a nose-down change in moment
- b) The airplane will require a decrease in angle of attack to maintain the same amount of lift
- c) What will happen during takeoff if you attempt to leave ground effect without sufficient airspeed?

59. What is the objective of a stabilized approach?

- a) To maintain an airspeed +/- 20 knots and a descent rate of around 1,000 fpm
- b) To be positioned and fully configured on the final approach leg at no less than 3 NM from the runway threshold
- c) The airplane should be on speed, in trim, configured for landing, tracking the extended centerline of the runway, and established in a constant angle of descent toward an aiming point on the runway

60. Where is the 'Available Landing Distance' (ALD) data published for an airport that utilizes Land and Hold Short Operations (LAHSO)?

- a) 14 CFR Part 91, General Operating and Flight Rules
- b) Aeronautical Information Manual (AIM)
- c) Special Notices section of the Airport Facility Directory (A/FD)

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Response Scheme

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

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

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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: _____