



## Pre-Solo Written Exam

Name: \_\_\_\_\_

This written test can be completed at home, open-book, as it is designed to test your ability to research answers and reinforce knowledge before you solo. If you cannot answer a question, leave it blank and discuss it with your instructor. In addition, you must complete the aircraft checkout sheet.

1. Which items must you have in your possession to solo an aircraft as a student?

*FAR §61.3, (a)(1 & 2) and (c) and §61.51(i)(2)*

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2. What are your limitations as a student pilot regarding carrying of passengers or cargo and flying for compensation or hire?

*FAR §61.87(o) and (n), 61.89, §91.93(a) and (b) and 61.95*

\_\_\_\_\_

3. Which aircraft documents are required to be on board for each flight? FAR §91.9 and §91.203

\_\_\_\_\_

4. V Speeds

- a. Vr \_\_\_\_\_
- b. Vx \_\_\_\_\_
- c. Vy \_\_\_\_\_
- d. Best Glide \_\_\_\_\_
- e. Final Approach Speed \_\_\_\_\_
- f. Max Flap Extended \_\_\_\_\_
- g. Va \_\_\_\_\_

5. What is the maximum gross weight of the airplane in the Normal category?

\_\_\_\_\_

6. What is the first step in the event of an engine failure on climb out?

\_\_\_\_\_

7. Why is it necessary to drain fuel out of the sumps after refueling and before the first flight of the day?

\_\_\_\_\_

8. What is the most important step for recovering from a stall?

\_\_\_\_\_

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9. What is the procedure for spin recovery?
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10. When practicing steep turns, stalls and maneuvering during slow flight, the entry altitude must allow a recovery to be completed no lower than how many feet AGL?
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11. What are wing-tip vortices (wake turbulence)? When are they greatest? Describe the proper avoidance. AIM 7-3-1
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12. Will the engine still run if the master switch is turned off? Why?
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13. What would happen to the fuel indicators if all electricity in the airplane were lost?
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14. Who is responsible for determining whether the aircraft is in airworthy condition for a particular flight?
- a. Pilot in command
  - b. Owner
  - c. Flight Instructor
15. How soon after consuming alcoholic beverages may a student pilot fly?
- a. 8 Hours and/or while having .04 percent by weight or less alcohol in the blood
  - b. 12 Hours and/or while having .04 percent by weight or less alcohol in the blood
  - c. 8 Hours and/or while having .08 percent by weight or less alcohol in the blood
16. When must a student pilot wear his/her seatbelt?
- a. Takeoff and Landing only
  - b. Duration of flight
  - c. In Turbulance
17. Which aircraft has the right of way over all other aircraft
- a. Balloon
  - b. Aircraft in distress
  - c. Helicopter

18. What is the minimum safe altitude over a congested area?
  - a. 500 ft above the highest obstacle
  - b. 1,000 ft above the highest obstacle
  - c. 2,000 ft above the highest obstacle
  
19. When two aircraft are approaching an airport for the purpose of landing, which aircraft has the right of way?
  - a. Lower aircraft
  - b. Faster aircraft
  - c. Slower aircraft
  
20. What should you do if an aircraft is approaching head on?
  - a. Dive
  - b. Turn left
  - c. Turn right

\_\_\_\_\_ Between the hours of sunset and sunrise, you should not have an airplane in the air without operating position and anti-collision lights. FAR §91.209(a & b) and §91.205(c)

\_\_\_\_\_ You may not enter Class C airspace without specific clearance from the controlling agency: i.e. "Cessna 12234 cleared to enter Class C airspace." FAR §91.130(c)

\_\_\_\_\_ The minimum legal altitudes for flight anywhere (except during take-offs and landings) is an altitude which will permit, in the event of engine failure, an emergency landing without undue hazard to persons or property on the surface. FAR §91.119(a)

\_\_\_\_\_ Even though your airplane has the right-of-way according to Federal Aviation Regulations, it is your responsibility to maneuver to avoid collision. FAR §91.113(b)

\_\_\_\_\_ The minimum reserve fuel required for day VFR operations is 30 Minutes

\_\_\_\_\_ An instructor's endorsement for solo flight is only required once and is valid until you earn a private pilot certificate.

\_\_\_\_\_ High humidity increases takeoff distance



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Draw and list the runways, direction of turns, traffic pattern altitude, proper pattern entries, runway lengths, noise abatement procedures, airspace, VFR minimums, and all radio frequencies for your airport and one other nearby airport.

I certify that \_\_\_\_\_ has satisfactorily completed the presolo knowledge exam of section §61.87(b) for the \_\_\_\_\_ (make/model). We have reviewed and discussed any incorrect or incomplete answers on this exam and the aircraft checkout sheet.

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Date	Instructor's	Signature Certificate #	Expiration
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