

# Pre-Solo Written Exam

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

This written test can be completed at home, open-book, as it 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) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. Which maneuvers are required (in an airplane) before you may solo? FAR §61.87(d)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. What are your limitations as a student pilot? FAR §61.87(o) and (n), 61.89, §91.93(a) and (b) and 61.95 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. How long is your medical certificate valid for? FAR §61.23(d)  
\_\_\_\_\_
5. Who is the final authority and responsible person for the operation of an aircraft? FAR §91.3  
\_\_\_\_\_
6. Which aircraft documents are required to be on board for each flight? FAR §91.9 and §91.203  
\_\_\_\_\_  
\_\_\_\_\_
7. Which inspections are required to maintain an airworthy aircraft and how often?  
FAR §91.409 \_\_\_\_\_  
FAR §91.413 \_\_\_\_\_  
FAR §91.207 \_\_\_\_\_  
When is a 100-hour inspection required?
8. What preflight action is required prior to a flight? FAR §91.103 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
9. During preflight you notice the beacon is inoperative and strobe lights are not installed. Can you fly the airplane? FAR §91.205 and §91.209 \_\_\_\_\_  
\_\_\_\_\_

10. When are you required to wear a safety belt? FAR §91.107 \_\_\_\_\_  
\_\_\_\_\_
11. When departing southeast, above 3000' AGL, what altitudes can you be at? FAR §91.159  
\_\_\_\_\_  
\_\_\_\_\_
12. When are you permitted to deviate from an ATC instruction? FAR §91.123 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
13. What is the minimum amount of time a pilot is required to wait after the consumption of alcohol? FAR §91.17 \_\_\_\_\_  
\_\_\_\_\_
14. During engine run-up, you cause rocks and debris to be directed toward another aircraft or person. Could this be considered careless or reckless operation of an aircraft? Why? FAR §91.13 \_\_\_\_\_  
\_\_\_\_\_
15. What is the minimum reserve fuel required for day VFR operations? FAR §91.151  
\_\_\_\_\_
16. What defines aerobatic flight? FAR §91.303 \_\_\_\_\_  
\_\_\_\_\_
17. When are parachutes required to be worn and by whom? FAR §91.307 \_\_\_\_\_  
\_\_\_\_\_
18. 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? \_\_\_\_\_
19. What are wing-tip vortices (wake turbulence)? When are they greatest? Describe the proper avoidance. AIM 7-3-1 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
20. Will the engine still run if the master switch is turned off? Why? \_\_\_\_\_  
\_\_\_\_\_
21. What would happen to the fuel indicators if all electricity in the airplane were lost? \_\_\_\_\_  
\_\_\_\_\_
22. If you see smoke coming from the panel, what does this indicate and what would you do?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## True or False

- \_\_\_\_\_ If, while circling an airport in preparation to land, you receive a steady red light from the tower, you should give way to other aircraft and continue circling. FAR §91.125
- \_\_\_\_\_ If you have been properly cleared to make a flight and when ready for take-off you receive flashing white lights from the traffic control tower, you should return to the starting point on the airport. FAR §91.125
- \_\_\_\_\_ If you are ready for take-off and receive a flashing red light from the control tower, you should taxi clear of the landing area (runway) in use. FAR §91.125
- \_\_\_\_\_ If you receive an alternating red and green light from the traffic control tower, you should be on the alert for hazardous or unusual conditions. FAR §91.125
- \_\_\_\_\_ 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)
- \_\_\_\_\_ An aircraft in distress has the right-of-way over all other aircraft except lighter-than-air aircraft. FAR §91.113(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)
- \_\_\_\_\_ Over congested areas of cities or towns, the minimum legal altitude is 1000 feet above the highest obstacle within a horizontal radius of 2000 feet from the aircraft. FAR §91.119(b)
- \_\_\_\_\_ 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)
- \_\_\_\_\_ If your airplane is overtaking another, it is your responsibility to avoid collision and you should alter your course to the right. FAR §91.113(f)
- \_\_\_\_\_ If two or more airplanes are on final approach to landing, the right-of-way belongs to the airplane which is at the higher altitude. FAR §91.113(g)
- \_\_\_\_\_ An airplane which is ready for take-off has the right-of-way over an airplane approaching to land. FAR §91.113(g)
- \_\_\_\_\_ When two airplanes are approaching head-on, or approximately so, the faster must alter its course to the left. FAR §91.113(g)
- \_\_\_\_\_ Mode C transponder is required at my home airport. FAR §91.215

Draw and list the runways, direction of turns, traffic pattern altitude, 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 competed 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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