

PRESOLO WRITTEN EXAM

As specified in 14 CFR Part 61, you must demonstrate satisfactory knowledge of appropriate portions of FAR part 61 and 91 to an authorized instructor. The demonstration must include the satisfactory completion of a written examination to be administered and graded by the instructor who endorses your student pilot certificate for solo flight. In addition to questions on the applicable regulations, the written exam must include questions on the flight characteristics and operational limitations for the make and model aircraft to be flown.

Advisory Circular 61-101, Presolo Written test, indicates that you also should have adequate knowledge to operate safely during solo flight in your local training environment. If the surrounding area includes controlled airspace, such as class B, C, D, or E airspace, you may be asked to answer appropriate questions on operations in these areas.

This exam contains a total of 50 questions: 20 general questions, 10 aircraft questions, and 20 airport and airspace questions.

Student: _____

CFI: _____

General Questions

1. What personal documents and endorsements are you required to have before you fly solo?

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

3. Explain student pilot limitations concerning visibility and flight above clouds.

4. Who has the final authority and responsibility for the operation of the aircraft when you are flying solo?

5. Discuss what preflight action concerning the airport and aircraft performance is specified in the regulations for a local flight.

6. During engine run up, you cause rocks, debris, and propeller blast to be directed towards another aircraft or person. Could this be considered careless or reckless operation of an aircraft? _____

7. You may not fly as pilot of a civil aircraft within _____ hours after consumption of any alcoholic beverage or while you have _____% or more alcohol in your blood.

8. What are the general requirements pertaining to the use of safety belts and shoulder harnesses?

9. What are the minimum fuel reserves for day VFR flight, and what cruise speed is the fuel reserve based.

10. A transponder with Mode C is required at all times in all airspace at and above _____ feet MSL, excluding that airspace at and below _____ feet AGL.

11. What aircraft certificate and documents must be on board when you are flying solo?

A _____

R _____

O _____

W _____

12. No person may operate an aircraft so close to another aircraft as to create a(n)

13. Who has the right-of-way when two aircrafts are on final approach to land at the same time?

14. What action do you need to take if you are overtaking another aircraft, and which aircraft has the right-of-way? What should you do if you are flying on a head on collision course with another aircraft? If another single engine aircraft is converging from the right, who has the right-of-way?

15. Except when necessary for takeoffs and landings, what are the minimum safe altitudes when flying over congested areas?

16. If the altimeter setting is not available at an airport, what setting should you use before departing on a local flight?

17. What altitudes should you use when operating under VFR in level cruising flight at more than 3,000 feet AGL?

18. When practicing steep turns and stalls and maneuvering during slow flight, the entry altitude must allow a recovery to be completed no lower than _____ feet AGL.

19. When is a go-around appropriate?

20. What general steps should you follow after an engine failure in flight?

A _____
L _____
E _____
R _____
T _____
S _____

6. What grade of fuel can be safely used in your training aircraft?
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7. The maximum oil capacity of your aircraft is _____ quarts, and the minimum oil capacity to begin a flight is _____ quarts.
8. The maximum demonstrated crosswind component for takeoffs and landings in your training aircraft is _____ knots.
9. When do you use carburetor heat? What are the indications of carburetor icing?
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-
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10. What is the takeoff and landing distance over a 50-foot obstacle for your aircraft at your airport? (Assume maximum certified takeoff weight, 26°C, winds calm, and an altimeter setting of 29.52.)
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Airport and Local Airspace Questions

1. What are the traffic patterns for each runway at Tamiami? What is the MSL altitude for traffic pattern?
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-
-
-
2. How do you enter the traffic pattern at Tamiami airport? What, if any, radio communications are required?
-
-
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3. What radio calls are recommended in the traffic pattern at an uncontrolled airport?

4. What is the standard direction of turns in the traffic pattern? Give an example of a visual display indicating a nonstandard traffic pattern.

5. What is CTAF? Explain CTAF procedures at Homestead General.

6. How can you determine if a runway is closed?

7. What is the maximum speed permitted for aircraft below 10,000 feet MSL? What is the maximum speed allowed in class B airspace? What is the maximum speed allowed in a VFR corridor through class B airspace?

8. If you receive ATC instructions that you feel may compromise safety or will cause you to violate an FAR, what should you do?

9. What is the meaning of each of the following ATC light signals?

Alternating red and green _____
IN FLIGHT

Steady green _____
Flashing green _____
Steady red _____
Flashing red _____

ON GROUND

Steady green _____
Flashing green _____
Steady red _____
Flashing red _____
Flashing white _____

10. Describe Class B boundaries and how they apply to an airport within that airspace. Explain how you can use navigation equipment and/or ground reference points to identify the Class B boundaries. (Draw a diagram if necessary)

11. In addition to equipment requirements and a student pilot certificate, what other requirements, if any, must be met before a student pilot is authorized to fly solo within class B airspace?

12. Explain the general transponder equipment and use requirements when operation within or near class B airspace.

13. You have called ATC just prior to entering class B airspace and the controller tells you to “Squawk 3245 and ident.” Are you now allowed to enter class B airspace without any further instructions? Explain.

14. On a sectional chart, what does a dashed blue line around an airport indicate?

15. What are the typical dimensions of class D airspace, and what requirements must be met prior to entry?

16. Explain the minimum visibility and ceiling requirements for VFR flight in class D airspace.

17. Can a student pilot request a special SVFR clearance in class D airspace when the visibility is less than three miles? Explain.

18. You have called ATC prior to entering class D airspace and the controller tells you “Cadet 143ND, Standby.” Are you now allowed to enter this airspace without any further instructions? Explain.

19. Describe the typical dimensions of class C airspace. Is participation in the radar service mandatory within the outer area of class C airspace?

20. Describe the airspace boundaries that affect your airport or a nearby airport. Explain how you can use navigation equipment and/or ground reference points to identify the airspace boundaries.
