

## PRESOLO EXAM

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

Make and model aircraft: \_\_\_\_\_

Date of exam: \_\_\_\_\_

Date of review: \_\_\_\_\_ Reviewed by: \_\_\_\_\_

Calculate the weight and balance for your airplane with you and full fuel tanks.

	Weight	Arm	Moment
Empty plane			
Pilot			
Baggage			
Full fuel			
<b>TOTALS</b>			

Are you within limits? \_\_\_\_\_

1. What documents and endorsements are required for you to fly solo?
2. What are student pilot limitations regarding carriage of passengers or cargo, and flying for compensation or hire?
3. Explain student pilot limitations concerning flight visibility and flight above clouds.
4. Who has the final authority and responsibility for operation of the aircraft when you are flying solo?
5. What preflight actions are required concerning the airport and aircraft performance in the regulations for local flight?
6. During engine starting and run up, you cause rocks, dust, 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 an alcoholic beverage, or while you have \_\_\_\_\_ % by weight or more alcohol in your blood.
8. What are general requirements for use of safety belt and shoulder harnesses?

9. What is the minimum fuel reserve for day VFR flight? \_\_\_\_\_ What speed is the fuel reserve based on?
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 certificates and documents must be in the aircraft when you are flying solo? (ARROW)
12. No person may operate an aircraft so close to another aircraft as to create \_\_\_\_\_.
13. Who has the right-of-way when two aircraft are on final approach to land at the same time?
14. Do you have the right-of-way when you are overtaking another aircraft? \_\_\_\_\_ On which side is the pass made?
15. What should you do if you are on a head on collision course with another aircraft?
16. If another single-engine aircraft is converging from the right, who has the right-of-way?
17. Except for takeoffs and landings, what are the minimum safe altitudes when flying over congested areas? \_\_\_\_\_ Other than congested areas?
18. If an altimeter setting is not available for an airport, what setting should you use before departing for a local flight?
19. What altitudes should be used when operating under VFR in level cruising flight, at more than 3000 feet AGL?
20. When practicing steep turns, stalls, and maneuvering during slow flight, the entry altitude must allow a recovery to be completed no lower than \_\_\_\_\_ feet AGL.
21. When is a go-around appropriate? Explain the general procedure used?
22. What steps should be followed after an engine failure in flight?

## PRESOLO AIRPORT AND AIRSPACE QUESTIONS: AIRPORT \_\_\_\_\_

1. What are the traffic patterns for each runway at your airport? What is the MSL altitude for the traffic pattern?
2. How do you enter and exit the traffic pattern at your airport? What, if any, radio communications are required?
3. What radio calls are recommended in the traffic pattern at an uncontrolled airport? What radio calls are required at your airport?
4. What is the standard direction of turns in an airport traffic pattern? Draw an example of how a *non-standard* traffic pattern may be shown for an airport.
5. What is CTAF? Explain CTAF procedures at your training airport(s).
6. In the pattern at any airport, a bird is at your altitude, head on, what actions would you take?
7. A(n) \_\_\_\_\_ on the runway indicates that runway is closed?
8. Assume you are signed off to solo with a maximum crosswind of 8 knots. You take off with wind blowing directly down the runway. Upon returning solo to the airport, the wind has changed so there is now a 10 knot crosswind for the runway being used. Explain what you would do?
9. If you receive ATC instructions that you feel may compromise safety or will cause you to violate a FAR, what should you do?
10. As a student pilot, can you fly to the San Francisco International (SFO) airport? Explain.
11. On a sectional chart, what does a shaded magenta line around the Watsonville airport area indicate?

**PRESOLO AIRCRAFT QUESTIONS: AIRCRAFT MAKE AND MODEL \_\_\_\_\_**

Complete a weight and balance calculation on the back of this page. Instructor weight: \_\_\_\_\_

List the minimum equipment and instruments that must be working properly in your aircraft for day VFR flight.

Fill in the V-speed definitions and the corresponding speed for your training airplane.

- |                    |                          |                         |
|--------------------|--------------------------|-------------------------|
| 1. V <sub>so</sub> | _____                    | _____                   |
| 2. V <sub>s1</sub> | _____                    | _____                   |
| 3. V <sub>x</sub>  | _____                    | _____                   |
| 4. V <sub>y</sub>  | _____                    | _____                   |
| 5. V <sub>fe</sub> | _____                    | _____                   |
| 6. V <sub>a</sub>  | _____                    | _____                   |
| 7. V <sub>no</sub> | _____                    | _____                   |
| 8. V <sub>ne</sub> | _____                    | _____                   |
|                    | (discription of v speed) | (speed in knots or mph) |

9. What is the best glide speed for your airplane? \_\_\_\_\_
10. What is the normal flap setting for takeoff in your aircraft? \_\_\_\_\_
11. The total usable fuel capacity for your aircraft is \_\_\_\_\_ gallons. On a standard day (sea level temperature, 59F, altimeter 29.92 in. Hg.), the fuel consumption rate for normal (approximately 75% power) cruise is \_\_\_\_\_ gallons per hour.
12. What grade of fuel can be safely used in your aircraft? \_\_\_\_\_ What are the color(s) of the recommended fuels? \_\_\_\_\_ What happens to the color of the fuel if two grades of fuel are mixed?
13. The maximum oil capacity for your aircraft is \_\_\_\_\_ quarts. The minimum oil capacity to begin a flight is \_\_\_\_\_ quarts. What type of oil is added? \_\_\_\_\_
14. The aircraft's demonstrated crosswind component is \_\_\_\_\_ knots. The maximum crosswind component specified by your instructor for solo takeoffs and landings in your aircraft is \_\_\_\_\_ knots.
15. When would you use carburetor heat? What are indications of carburetor icing?
16. Will the engine still run if the master switch is turned off? \_\_\_\_\_ Why?
17. If your engine fails on takeoff, what would you do?(a) Before rotation? (b) After rotation, no more runway? (c) At 600'AGL after takeoff?
18. Assume maximum certificated takeoff weight, 80F, calm wind. What is the takeoff distance over a 50-foot obstacle for your aircraft at your airport? \_\_\_\_\_  
Landing distance over a 50-foot obstacle? \_\_\_\_\_
19. Explain the procedures used to recover from an unintentional spin. Use the back of this page if more space is needed.