

PRE-SOLO KNOWLEDGE TEST

Airplane make/model: _____

1. List the airspeeds and their definitions for your airplane.

Airspeed	Definition
V _{so} : _____	_____
V _{s1} _____	_____
V _R _____	_____
V _X _____	_____
V _Y _____	_____
V _{FE} _____	_____
V _A _____	_____
V _{NO} _____	_____
V _{NE} _____	_____

2. The maximum gross weight for your airplane is _____ lbs.

3. The maximum takeoff weight for your airplane is _____ lbs.

4. Fuel: Maximum capacity _____ gallons of which _____ gallons are usable

Minimum fuel to start a solo flight _____ gallons

5. Oil: Maximum capacity _____ qt.

Minimum oil to start a solo flight _____ qt.

Grade _____

6. Compute the location of the center of gravity (CG) for a solo flight with full fuel in your airplane. Is the CG within limits?

7. What are the indications of carburetor icing? When is carburetor heat recommended to be used in your airplane?

8. What are the radio frequencies used at your airport?

Clearance Delivery _____

ATIS _____

Ground _____

Tower _____

Approach/ Departure _____

CTAF _____

UNICOM _____

FSS _____

9. At your airport:

a. What runways are available?

b. What is the direction of the traffic pattern for each runway?

c. What is the traffic pattern altitude?

d. In what class of airspace is the airport located?

10. How do you enter and depart the traffic pattern at your airport?

11. What radio communication procedures are required at your airport?

12. Explain the procedures you would use to land at your airport if the communication radio(s) failed.

13. List the meaning of the following ATC (air traffic control) light signals:

In flight	On Surface
Steady green _____	_____
Flashing green _____	_____
Steady red _____	_____
Flashing red _____	_____
Flashing white _____	_____
Alternating red & green _____	_____

14. What airplane certificates and documents must be on board the aircraft prior to every flight?

15. What personal documentation and endorsements must you have before beginning a solo flight?

16. Who is directly responsible and is the final authority as to the operation of your airplane when you are flying solo?

17. You may not fly as a pilot within _____ hours after the consumption of an alcoholic beverage or with _____% by weight or more alcohol in the blood.

18. Explain the regulatory preflight action requirements.

19. Explain your use of safety belts while flying solo.

20. When aircraft are approaching each other head-on, or nearly so, what action should be taken?

21. Except for takeoff and landing, at which minimum safe altitudes should you operate your airplane?

22. Explain the altimeter setting procedures.

23. When practicing steep turns, slow flight, power-on stalls and power-off stalls, you should select an altitude that allows the maneuver to be completed no lower than _____.

24. Explain the go-around procedures in your airplane. When would you use the go-around procedures?

25. The best glide airspeed for you airplane (at max gross weight) is _____

a. What airplane configuration is specific to obtain the max glide?

b. During the takeoff climb at an altitude of 100 ft. AGL

c. En route

26. Explain the recommended use of flaps for takeoff in your airplane.

27. For a student pilot, what are the minimum visibility requirements?

28. For a student pilot, what are the restrictions to flight above clouds?

29. For a student pilot, what are the limitations of carrying passengers?

30. What are the day-VFR fuel requirements?

END OF EXAM