PRE-SOLO KNOWLEDGE EXAM

Name:

Airplane Make / Model: _____

You will need to have the following:

- 1) Federal Aviation Regulations (FAR's)
- 2) Aeronautical Information Manual (AIM) with Pilot / Controller Glossary
- 3) Aviation Sectional Chart
- 4) Chart Supplement
- 5) Airman Certification Standards for Private Pilot
- 6) Pilot's Operating Handbook (POH) for the airplane you are training in
- **1)** Who is ultimately responsible for the operation of an aircraft and what does that responsibility entail? FAR 91.3 and FAR 1.1 (Pilot-in-Command)
- 2) What personal documents must a Student Pilot carry when flying cross country? FAR 61.51 (i)(2)
- **3)** What is a cross country flight? FAR 61.1 (b)(3) (i) and FAR 61.1 (b)(3) (ii)
- 4) What are the limitations for a student pilot carrying passengers? FAR 61.89
- **5)** You may not fly an airplane within _____ hours after the consumption of an alcoholic beverage or with _____ % by weight or more of alcohol in your blood. FAR 91.17

- 6) What airplane documents must be onboard the airplane for every flight? FAR 91.9 and FAR 91.203
- 7) Explain preflight action requirements necessary before flying an airplane. FAR 91.7 and FAR 91.103
- **8)** Are you allowed to fly in Restricted Airspace? Are you allowed to fly in Prohibited Airspace? FAR 91.133 and AIM 3-4-2 and 3
- 9) How are Restricted and Prohibited airspaces depicted a Sectional Chart?
- 10) Are all Restricted and Prohibited airspace depicted on Sectional Charts? FAR 91.139
- **11)** If you have concern over the safety of a proposed flight path, where can you go for help? AIM 4-1-3 and AIM 5-1-3
- 12) What are the day-Visual Flight Rule (VFR) fuel requirements? FAR 91.151
- 13) Explain the use of safety belts and shoulder harnesses for crew members? FAR 91.105

14) What are the basic Visual Flight Rule (VFR) weather minimums? FAR 91.155

- **15)** For a student pilot, are there more restrictive visibility requirements than basic VFR visibility minimums? FAR 61.89
- **16)** For a student pilot, are there more restrictive flight-above-cloud requirements than basic VFR visibility and cloud separation requirements? FAR 61.89
- 17) What are the minimum safe altitudes for the operation of an airplane? FAR 91.119
- **18)** When two airplanes are approaching at right angles to each other and at the same altitude, what action should each take? FAR 91.113 (d)
- **19)** When practicing performance maneuvers such as steep turns, slow flight, power-on or power-off stalls, you should do so at an altitude of at least _____?
- 20) List the meaning of the following ATC light gun signals: FAR 91.125

	ON THE GROUND	IN FLIGHT
Steady Green		
Flashing Green		
Steady Red		
Flashing Red		
Flashing White		
Alternating Red &	Green	

- **21)** What is the difference between a towered and a non-towered airport? Is your training airport a towered or a non-towered airport? Pilot/Controller Glossary See-TOWER AIM 4-3-2 (a) and AIM 4-1-9 (a) through (c)
- **22)** Explain the procedures you would use to land at the training airport if your communication radios failed in flight? FAR 91.185 (b), AIM 6-4-1 and 6-4-2
- **23)** Draw the runway configuration and the major taxiway configuration of the training airport.

- **24)** What are the normal traffic patterns and traffic pattern altitudes around the training airport?
- **25)** What are the following radio frequencies at your training airport? *Write "N/A" if is doesn't apply to your training airport.*

ATIS / ASOS / AWOS:	

Ground Control: _____

Tower: _____

Approach Control: _	
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Departure	Control:	
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CTAF: _____

Unicom:

Flight Service Station:

26) List the airspeeds and the	neir definitions for your training airplane:
AIRSPEED	DEFINITION
Vso:	
Vs:	
Vr:	
Vx:	
Vy:	
Vfe:	
Va:	
Vno:	
Vne:	
27) What is the maximum ra	amp (gross) weight for your training airplane?
28) What is the maximum ta	keoff weight for your training airplane?
29) What is the maximum f capacity is usable?	uel capacity for your training airplane and how much of that
30) What is the minimum a	nd maximum oil capacity of your training airplane?
31) What is the best-glide s	speed for your training airplane?
32) When is carburetor hea	at recommended in your training airplane?

- 33) Explain the recommended use of flaps for a normal landing in your training airplane?
- **34)** Explain the procedures you would follow if the engine failed in your training airplane, immediately after takeoff?
- **35)** Explain the procedures you would follow if the engine failed in your training airplane on takeoff, after crossing the end of the runway and before you've reached 400 feet?
- **36)** Explain the procedures you would follow if the engine failed in your training airplane at 3,500 feet AGL while you are flying over sparsely populated terrain?
- **37)** Compute the location of the center of gravity (CG) for a solo flight with full fuel in the training airplane. Is the CG within acceptable limits?

Date Reviewed: _____

Score:		

Student

Instructor