

## PHASE II - KNOWLEDGE TEST (PRE-SOLO)

Student Name: \_\_\_\_\_ Date: \_\_\_\_\_

Instructor: \_\_\_\_\_

1. When your instructor endorses you for solo, are you allowed to carry passengers?
2. Who is responsible for determining if an aircraft is in safe condition for flight?
3. The final authority as to the operation of an aircraft is the:
4. In addition to a valid Airworthiness Certificate, what glider documents or records must be on board during flight?
5. If you find yourself approaching an aircraft head-on, what action should you take?
6. The national airspace system was created to prevent collisions between aircraft operating in conditions of:
7. Class E airspace over your home airport starts at what altitude?
8. What are the visibility and cloud clearance requirements at 1,000 feet AGL at your home airport?

9. What are the visibility and cloud clearance requirements at 10,000 feet AGL at your home airport?
10. To avoid collisions, what actions should you take before entering an active runway?
11. Describe the difference between pitot and static pressure.
12. The pitot system provides pressure for which instrument(s)?
13. Which instruments use the static pressure?
14. How should you adjust the altimeter before flight?
15. What does the red line on an airspeed indicator represent?
16. What does the yellow arc on an airspeed indicator represent?
17. Where may a glider's operating limitations be found?
18. What are the following speeds in the glider you will use for solo?
  - Best L/D (solo) -----
  - Minimum Sink (Solo) -----
  - VNE at field elevation -----
  - VNE at 18,000' MSL -----

19. A glider has been loaded so that the CG is located aft of the limit. One undesirable flight characteristic a pilot might experience with this glider would be:
  
20. List the warning signs of a stall, in the order that they occur.
  
21. What is the CTAF frequency at your home airport, and what is it used for?
  
22. What is the AWOS frequency at your home airport (or the nearest one with an AWOS), and what is it used for?
  
23. What is your pre-landing checklist?
  
24. What types of cloud indicates the possibility of strong turbulence, and large areas of sink and lift, that results from high winds aloft?
  
25. What type of cloud indicates thermal lift?