

Pre Solo Written For Schweizer 2-33 Glider
For Currently Certified Pilots (Pvt/Comm Airplane)

Eagles Sport Aviation Club

Student _____ Date: _____ Instructor _____

- 1) What is the maximum gross weight for the 2-33? _____ Empty Weight? _____
- 2) What position should the trim level be prior to takeoff for aero tow? _____
- 3) List all of the speeds for the 2-33 below:
 - a) Maximum Aero Tow Speed: _____
 - b) Red line speed (Vne): _____
 - c) Best L/D Speed Solo: _____
 - d) Best L/D Speed Dual: _____
 - e) Minimum Sink Speed Solo: _____
 - f) Minimum Sink Speed Dual: _____
 - g) Maximum Dive Brake Open Speed: _____
 - h) Stall Speed Solo: _____
 - i) Stall Speed Dual: _____
- 4) Why does the stall speed increase in banked flight?
- 5) If you lost sight of the tow plane while on aero tow what should you do?
 - a) Descend very slowly until you see the tow plane
 - b) Push forward on the control stick abruptly to get the nose down to see
 - c) Release the glider from the tow line
 - d) Do nothing; the tow line will pull you back into the normal position
- 6) If you have a rope break below 200 feet AGL what would you do at your current airport?
- 7) If you have a rope break above 200 feet AGL, what would you do at your current airport?

- 8) What speed should you fly your pattern at in the 2-33?
- Best L/D Speed
 - Minimum Sink Speed
 - 60mph always
 - Best L/D Speed plus $\frac{1}{2}$ the wind velocity and gust factor
- 9) What actions would you take if the canopy came unlatched after the glider lifted off?
- 10) What special use airspace do we have near our airport and where is it located?
- 11) While preparing for a soaring flight it is important to
- Take snack food
 - Take plenty of drinking water
 - Have some sort of relief system (i.e. Zip-lock bags)
 - All of the above
- 12) _____ has played a significant role in numerous sailplane accidents.
- poor thermals
 - dehydration
 - too much coffee
 - deer on the runway
- 13) What is the speed you should use to fly when traveling from one thermal to the next, searching for lift?
- Best L/D Speed
 - Best Speed to fly
 - Minimum Sink Speed
 - Best L/D plus $\frac{1}{2}$ the wind
- 14) List the tow signals below:
- Tow plane waggles rudder on ground: _____
 - Glider waggles rudder on ground: _____
 - Tow plane waggles rudder in air: _____
 - Tow plane rocks wings in air: _____
 - Tow plane fish tails in air: _____
 - Glider rocks wings: _____
 - Glider fish tails: _____
 - Glider moves out to one side and rocks wings: _____
 - Glider moves out to right: _____
- 15) What are the requirements on tow rope breaking strength?

a) Not less than 80% of the maximum certificated gross weight of the glider, and not more than 200% of this weight.

b) Not less than 80% of the actual flying weight of the glider and not less than 200% of this weight.

c) Not less than 100% of the actual weight of the glider, nor more than 200%

16) It is allowable to use a rope with a breaking strength of more than 200% if:

a) The total weight of the tow plane is less than 200% of the gliders weight

b) There is a weak link installed at the glider end of the tow rope

c) There is a weak link installed on both ends of the towrope.

17) The proper procedure to remove slack in the towrope is:

a) Yaw the nose of the glider away from the rope using the rudder while keeping the wings level

b) Apply dive brakes to tighten the towline

c) Climb to reduce speed and tighten the towline

d) Release immediately

18) After release from tow, the glider pilot should:

a) Initiate a climbing turn to the right

b) Initiate a level turn to the right

c) Initiate a climbing turn to the left

d) Initiate a level turn to the left

19) The primary function of the rudder is to:

a) Turn the glider

b) Counteract aileron drag

c) Assist in recovery from stalls and spins

d) Perform slips

20) What are some ways a pilot can compensate for being too high on downwind?

21) What is the most important decision in the pattern?

a) When to turn downwind

b) When exactly to put on full spoilers

c) When to turn base

22) At what point in the landing pattern should the pilot totally disregard the altimeter?

a) When entering the pattern at a pre-determined altitude

b) Abeam your touchdown point

c) On base

d) Never, you should always reference your altimeter

23) What is minimum sink speed and when do we use it?

24) What is best L/D Speed and when do we use it?