

CSA 2017 ANNUAL QUIZ

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

Address: \_\_\_\_\_

Pilot Certificate Number: \_\_\_\_\_

Phone Number: \_\_\_\_\_

E-Mail: \_\_\_\_\_

1. List the following speeds for each ship you fly. Assume single person.

	Solitaire	Grob103	SGS 232	LS-4.
Vs	_____	_____	_____	_____
L/D	_____	_____	_____	_____
Min Sink	_____	_____	_____	_____

2. How much time should be spent in doing additional duties for every flight that you make?

A member who is pulling his or her weight will do all of the following and more.  
(List 4 or 5 items)

3. A Squawk list is to be filled out for any problems with the glider or other equipment. Serious problems should be reported immediately to:

4. Who is responsible for the tow rope to be in good working order?

5. Who is responsible for reporting flight time for a CSA glider?

6. If you experience a rope break at 300 feet, what is the maximum wind you will attempt to return to the field with a downwind landing?

Solitaire

G-103

2-32

LS-4

Discuss your answer with the grading CFG.

7. What is the only document that you can legally use to confirm a ship is airworthy? Where is it kept at Owl Canyon?

8. What is the glide ratio for the LS-4 with a 10 knot tailwind? With a 10 knot head wind? (Use the standard safety factor of  $\frac{1}{2}$ ).

How many feet will you lose in 10 Nautical Miles in each case?

9. What is the CTAF at CYS?

FNL?

GXY?

LAR?

What is/are the equipment requirements to land at each of these airports?

10. What are the VFR visibility and cloud clearance requirements when you are over Owl Canyon at 800 feet AGL?

At 4000 FEET AGL?

11. What is the forecast wind for Cheyenne from 1600 until the end of the forecast?

KCYS 252038Z 2521/2618 22009KT P6SM SCT250

12. Where do you download a sounding for Owl Canyon?

13. Define the term "trigger temperature"

14. Explain the term "temperature lapse rate"

15. Explain wind gradient

16. The Solitaire's annual condition inspection was completed on Mar 19, 2016. What is the last day you can legally fly it?

17. You feel you might have to land out in a field while on a cross country. What are things you should look for in a possible landing site?

_____	_____
_____	_____
_____	_____
_____	

18. Name 2 or 3 situations that would make you immediately release the tow rope

19. During tow, your canopy opens. Describe the correct procedure(s) for this situation.

20. When is supplemental oxygen required?

What physiologic conditions might necessitate going on oxygen at a lower altitude?

What are some of the symptoms of hypoxia?

Discuss the club rules for safely filling the ships' oxygen tanks.

22. A sailplane pilot can differentiate between a spin and a spiral dive because in a spiral dive,  
A) the speed remains constant.  
B) the G loads increase.  
C) there is a small loss of altitude in each rotation.

23. The term `angle of attack` is defined as the angle between the  
A) chord line of the wing and the relative wind.  
B) airplane`s longitudinal axis and that of the air striking the airfoil.  
C) airplane`s center line and the relative wind.

24. What is the effect on density altitude of the ambient temperature changing from 32 F to 50 F at a constant pressure altitude of 3000'?

- a) DA increases 1300'
- b) DA increases 1000'
- c) DA decreases 1000'

Discuss the impact of such a change with your instructor.

25. In the Northern Hemisphere, if a glider is accelerated or decelerated, the magnetic compass will normally indicate

- a) a turn toward north while decelerating on an east heading.
- b) correctly only when on a north or south heading.
- c) a turn toward south while accelerating on a west heading.

26. Match the airspeed indicator markings with the appropriate "V" speeds

- |                            |       |                        |
|----------------------------|-------|------------------------|
| a) radial red line         | _____ | normal operating range |
| b) bottom of the white arc | _____ | never exceed airspeed  |
| c) the green arc           | _____ | caution speed range    |
| d) the yellow arc          | _____ | "dirty" stall speed    |

27. What action should a pilot take when operating under VFR in a Military Operations Area (MOA)?

- a) Obtain a clearance from the controlling agency prior to entering the MOA.
- b) Operate only on the airways that transverse the MOA.
- c) Exercise extreme caution when military activity is being conducted

28. The best lift/drag ratio of a glider is a value that (True/False)

- a) varies depending upon the weight being carried.
- b) remains constant and is independent of the weight being carried.
- c) varies depending upon airspeed changes.

29. How often do parachutes have to be inspected?

True or False: If a parachute is past its inspection date, can you still use it as a cushion in the seat of the glider?

#### STUDENT PILOTS

1. When you fly solo, what documents must you have on your person while flying?

2. What documents must be in the glider?

3. Who is responsible for inspecting the tow rope?

4. How many days can you go before you need to fly with an instructor in order to continue flying solo?

5. Can you solo without an instructor on the airfield?

#### WINCH QUALIFIED PILOTS

1. Where is the limitation stated for maximum indicated airspeed during a ground-launch?

2. Who is authorized to stop a ground launch?

3. Who is authorized to restart a launch?

4. What is the correct weak-link for the Grob 103B?

5. during takeoff at approximately 150 feet a.g.l. you see the drogue-chute on the winch line fully open and you are about to fly into the chute: what will you do and why?

6. How is the initial glider pitch set for the beginning of the takeoff?

7. What outside references do you use for pitch control during launch?

8. What is the currency requirements for conducting a ground launch as a Pilot in Command?

Club member Signature \_\_\_\_\_ Date \_\_\_\_\_

Instructor Signature \_\_\_\_\_

Revised 11/27/16 MFR, HAS, WC