

GACE FLYING CLUB CESSNA 172S AIRPLANE REVIEW – 2010

DATE: _____ AIRPLANE NUMBER: _____

NAME: _____ GACE#: _____ SCORE: _____

CHECKED BY: _____ CFI#: _____ DATE: _____

**Information for answers may be found in Cessna 172S manual and passing grade is 80%.
Use the back of this form for additional calculations. Include a reference page for each answer.**

1. What is the Maximum allowable weight in the rear seats, when operating in the utility category?
2. In which Position should the fuel selector be placed during fueling?
3. What is the Maximum allowable weight in baggage area 2?
4. What is (are) the Color(s) of the Approved fuel(s)?
5. How much Unusable fuel is there in each tank?
6. What is the Minimum allowable oil pressure?
7. What Color on the airspeed indicator denotes the flap operating range?
8. What is the Maximum allowable AFT CG in utility category?
9. What is the Maximum allowable weight in utility category?
10. What is the Maximum allowable oil temperature?
11. What is the first action to be taken if the Low Voltage light illuminates in flight?
12. What is the first action to be taken if there is an Engine Fire in flight?
13. What is the best glide speed after engine failure in flight?
14. What action should be taken, if during flight, the oil pressure is low and the oil temperature is rising?

15. How is carburetor ice detected?
16. What is the maximum approved flap setting for takeoff?
17. What is the maximum RPM difference between magnetos allowed during engine run-up?
18. What flap setting should be used for a soft field takeoff?
19. What is the procedure for leaning the engine?
20. What airspeed should be achieved before retracting flaps during a balked landing?
21. May the airplane be flown if the fuel gage is inoperative?
22. How many fuel drains are on the airplane?
23. Which glass cleaner may be used to clean the windshield?
24. What is the capacity of the alternator in amperes?
25. What is the voltage rating of the battery?
26. What is VA (KIAS) at 2550 pounds?
27. What is VFE (KIAS) at 30 degrees flaps?
28. How far will the airplane glide from 2500 feet into a 20-knot headwind?
29. What is VY (KIAS) at 3000 feet?
30. What is VX (KIAS) at 3000 feet?
31. What is normal climb speed (KIAS) at 3000 feet?

Use the following conditions for the remaining questions, unless otherwise indicated, use the actual aircraft Empty Weight and Moment.

Weight(s):	Empty Weight	1664 lbs
	Front seats	330 lbs
	Rear seats	230 lbs
	Baggage area 1	60 lbs
	Baggage area 2	50 lbs

Weather:	Pressure Altitude at Takeoff	2000 feet
	Pressure Altitude at Cruise	4000 feet
	Temperature Standard	+ 20C (all altitudes)

Cruise Power Setting: 65%, Wind = 0

32. What is the maximum fuel that can be loaded?
33. What is the CG location for flight? Is it within acceptable limits?
34. What is the endurance for Night VFR flight?
35. What is the range for Night VFR flight?

For questions 36 thru 40 - Takeoff and Landing weight of 2550 pounds for short field operations:

36. What is the takeoff ground roll?
37. What is the total takeoff distance to clear a 100 ft obstacle?
38. What is the landing ground roll?
39. What is the total landing distance to clear a 100 ft obstacle?
40. Estimate the minimum runway length if the engine quits at liftoff speed (use (3) second decision time).