

# CESSNA 172S QUIZ

Please select 15 of the 23 questions listed below  
and provide answers as found in the POH (available in the airplane).

1. Define & List airspeeds
  - a.  $V_r$
  - b.  $V_x$
  - c.  $V_y$
  - d.  $V_{so}$
  - e.  $V_s$
  - f.  $V_{fe}$
  - g.  $V_a$
  - h.  $V_{no}$
  - i.  $V_{ne}$
  
2. What is the best glide speed for the 172S?
  
3. What is the demonstrated crosswind wind velocity?
  
4. \_\_\_\_ degrees of flaps are recommended for a short field takeoff.
  
5. Generally describe the engine in the 172S.

6. The maximum capacity of the engine oil sump is \_\_\_\_\_ quarts.
  
7. 75% Power at 2000' msl on a standard day is \_\_\_\_\_ rpm.
  
8. The Cessna 172S is equipped with two vented integral fuel tanks having a total usable fuel of \_\_\_\_\_ gallons. The Cessna 172S has \_\_\_\_ fuel drains.
  
9. The maximum gross weight for take off in the normal category is \_\_\_\_\_ lbs.
  
10. The normal landing approach airspeed (flaps down) is \_\_\_\_\_ KIAS.
  
11. The airplane is equipped with a \_\_\_\_ volt, direct-current system.

12. Weight and Balance	WEIGHT	MOMENT (lbs.) (lb.-ins./1000)
Basic Empty Weight	_____	_____
Fuel (Standard Tanks)	_____	_____
Pilot and Front Passenger	_____	_____
Rear Passengers	_____	_____
Baggage Area 1	_____	_____
Total Weight and Moment	_____	_____

Assumptions: front seat passengers 375 pounds, 30 pounds of baggage,  
and 40 gallons of useable fuel

13. The ramp weight of the aircraft will be \_\_\_\_\_ lbs.
  
14. The location of the aircraft's center of gravity will be \_\_\_\_\_ inches aft of datum.
  
15. As loaded, the aircraft is acceptable to be used in the \_\_\_\_\_ category.

16. Using the short field take-off technique at Sussex County Airport, under standard conditions, the total ground run distance will be approximately \_\_\_\_\_ feet.
17. On a standard day if you were to cruise at 5000 feet 75% BHP and had properly leaned the mixture, the aircraft's fuel consumption should be approximately \_\_\_ GALS/HOUR.
18. Using the short field landing technique upon your return to Sussex County Airport and the conditions being unchanged, the total ground roll distance will be approximately \_\_\_\_\_ feet.

**REVIEW THE EMERGENCY PROCEDURES AND ANSWER THE FOLLOWING 5 QUESTIONS ON EMERGENCY PROCEDURES**

19. The first procedure for a fire during start on the ground is:  
 A. Mixture -- idle cut-off  
 B. Throttle -- full open  
 C. Continue cranking  
 D. Stop cranking
20. The first action taken for an engine failure immediately after take-off should be:  
 A. Pull mixture control to idle cut-off  
 B. Auxiliary Fuel Pump - On  
 C. Airspeed – 68KIAS (Flaps UP)  
 D. Fuel Shutoff Valve -- OFF
21. If the ammeter indicates a continuous discharge rate in flight:  
 A. The alternator is not supplying power to the system and should be shut down  
 B. All non-essential equipment should be turned off  
 C. The flight should be terminated as soon as practical  
 D. All of the above
22. The first four steps on the ENGINE FIRE IN FLIGHT checklist are:  
 (1) \_\_\_\_\_  
 (2) \_\_\_\_\_  
 (3) \_\_\_\_\_  
 (4) \_\_\_\_\_
23. The Best Glide speed is \_\_\_\_ (KIAS).

**Pilot:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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

**Review Date:** \_\_\_\_\_