

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: _____