

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

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

**PRINCIPAL AIR**  
**30460-D liberator Ave**  
**Abbotsford BC**

## **CESSNA 172 TEST QUESTIONS**

This open-book exam is to familiarize the pilot with the Cessna 172 and its corresponding POH. There are a number of variations of the C-172 and it is important that the pilot be familiar with the particular model he/she will be flying. Refer to the POH as you complete the exam.

1. What is the total fuel capacity? \_\_\_\_\_ gallons Usable? \_\_\_\_\_ gallons
2. What is the approved fuel grade(s) \_\_\_\_\_ colours? \_\_\_\_\_
3. Where are the fuel drains located? \_\_\_\_\_
4. When should the fuel be checked at the drains? \_\_\_\_\_
5. How should the fuel selector valve be positioned when refueling? \_\_\_\_\_
6. What is the prescribed oil quantity for normal flights of less than three hours? \_\_\_\_\_
7. What is the correct grade of oil to use for OAT between 30\* F and 90\* F \_\_\_\_\_
8. What is the empty weight? \_\_\_\_\_ Max. certified gross weight? \_\_\_\_\_
9. What is the useful load? \_\_\_\_\_
10. What is the payload with full fuel? \_\_\_\_\_
11. How much fuel can be carried with a front seat load of 340 lb, and 25 lb of baggage?  
\_\_\_\_\_
12. What is the maximum demonstrated crosswind velocity (takeoff or landing)? \_\_\_\_\_
13. What is the maneuvering speed (Va) at gross weight? \_\_\_\_\_
14. What maximum airspeed can be maintained when penetrating turbulent air?  
\_\_\_\_\_

15. The C-172 is certified in the \_\_\_\_\_ category and is designed for limited aerobatic flight.

16. What maneuvers are allowed in the utility category?

17. What is the maximum weight in the utility category?

18. Can there be passengers in the back seats and still be in utility category?

19. What is the recommended \_\_\_\_\_ List each airspeed  
airspeed (IAS) for:

Condition	Flaps	Airspeed	Best rate of climb (Vy) _____
Normal TO/climb	Up	_____	Best angle of climb (Vx) _____
Normal Landing	Up	_____	Max. flap extension (Vfe) _____
Normal Landing	Down	_____	Stall speed, clean (Vs) _____
En route climb, sea level	Up	_____	Stall speed, full flap (Vso) _____
Short-field takeoff/climb	Up	_____	Best Glide _____
Short-field landing	Up	_____	Maneuvering speed, gross wt. (Va)
Short-field landing	Down	_____	Never exceed (Vne) _____

20. What is the range in zero wind, @63% power at 5000ft, standard temp, with 15 gallons usable fuel and 30 minutes reserve? \_\_\_\_\_

21. What is the hourly fuel consumption (lean mixture) at 2500 ft. pressure altitude, standard temp. and 75% power? \_\_\_\_\_

22. What is the airspeed (indicated) for maximum gliding distance? \_\_\_\_\_ KTS

23. What are the symptoms of carburetor ice? \_\_\_\_\_

24. How do you prevent carburetor ice? \_\_\_\_\_

25. If carburetor ice is suspected in flight, what is the proper procedure? \_\_\_\_\_

26. What is the indication of alternator malfunction? \_\_\_\_\_

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27. What is the procedure to restore electrical power? \_\_\_\_\_

28. What would you do if unable to restore the alternator? \_\_\_\_\_

29. In the event of vacuum pump failure, what flight instrument(s) would be lost? \_\_\_\_\_

30. What flight instruments would be lost if the static system was plugged up?  
\_\_\_\_\_

28. What is the procedure for engine failure immediately after takeoff? \_\_\_\_\_  
\_\_\_\_\_

31. Why is it important to lock the engine primer after use? \_\_\_\_\_

32. What aircraft documents must be on board during flight?

30. List the procedure for a balked landing (go-around). Assume a full flap landing.

31. List the procedures for engine failure at altitude.

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