



C-172-S Checkout Questionnaire

Name _____ Date _____

Certificate and Ratings _____ Certificate# _____

Total Time _____ Instructor (*if applicable*) _____

Airspeeds

1. What are the following V speeds in KIAS?

V_r _____ V_x _____ V_y _____

V_s _____ V_{so} _____ V_{no} _____

V_{ne} _____ V_a _____ V_{fe} _____

2. What are the best glide airspeeds for the airplane? _____

3. Does V_a change with a change in aircraft weight? If so, why is this important? _____

4. List the approach speeds for full flaps, partial flaps, and no flaps. _____

Emergency Procedures

5. Describe the emergency procedure (*and checklist*) you would perform if you had an engine failure just after takeoff. (*below 500 ft AGL*) _____

6. Describe the emergency procedure (*and checklist*) you would perform if you had an engine failure while in the traffic pattern. (*1000 ft AGL*) _____

7. Describe the emergency procedure (*and checklist*) you would perform if you had an engine failure while at cruise. (*above 3000 ft AGL*) _____

8. Describe the procedure to perform for a forced landing. _____

9. Describe how and when you would execute an emergency descent. _____

10. Describe the "Engine Fire In Flight" checklist. _____

11. What action should be taken if you experience low or high oil pressure? _____

12. What action should be taken if the ammeter indicates excessive or overcharge during flight? _____

13. What action should be taken if you experience partial power loss? _____

14. Describe what action to take in the event of an electrical fire in flight. _____

15. Describe the "Engine Fire During Start" checklist. _____

Normal Procedures

16. List the procedure to follow for a normal engine start. _____

17. Explain the procedure for starting a cold engine? Hot engine? _____

18. What is vapor lock and how do you prevent it? _____

19. When do we lean the mixture? Why? Describe the procedure(s). _____

20. What position should the fuel pump switch be in prior to takeoff and why? _____

21. Explain the procedures and list the appropriate speeds for a short field takeoff and landing. _____

Performance

22. Given: Departing KRYYY with a temperature of 15°C at maximum takeoff weight. Determine the takeoff distance over a 50 foot obstacle using the SHORT FIELD T/O technique. _____

23. What is the endurance at 8,000 feet and standard temperature at 65% power? _____

24. What is the maximum crosswind component for the airplane? _____

Weight and Balance

25. What is maximum takeoff weight? _____

26. Determine weight and balance (Use a BEW for any of our C-172-S models)

	Weight	Arm	Moment
BEW	_____	_____	_____
Pilot & Pass	_____	_____	_____
Rear Occupants	_____	_____	_____
Baggage A	_____	_____	_____
Baggage B	_____	_____	_____
Zero Fuel Weight	_____	_____	_____
Fuel @ 6 LBS/GAL	_____	_____	_____
Ramp Weight	_____	_____	_____
Taxi Fuel Allowance	_____	_____	_____
Takeoff Weight	_____	_____	_____
CG Location	_____	_____	_____

27. Is the aircraft within weight and CG limits? If not, show how we can be with limits. _____

28. What aircraft categories are the aircraft certified under? _____

29. What is the maximum allowable weight in baggage compartment A? B? Total? _____

Systems

30. What type of engine does the aircraft have? (*specify make and model*) _____

31. How many engine driven magnetos does the plane have? What are they used for? _____

32. What is the total fuel capacity? What is the total usable? _____

33. What types of fuels are approved for the aircraft? _____

34. How many fuel drains does the fuel system have? Where are they located? _____

35. How many positions does the fuel selector have? What are they? _____

36. How many engine driven vacuum pumps does the airplane have? _____

37. What is the total oil capacity? What is the minimum capacity? _____

38. Does the oil levels ever fluctuate? What does the aircraft normally operate at? _____

39. Describe the electrical system. _____

40. What is the voltage of the battery? Where is the battery located in the aircraft? _____

41. What has happened when the low voltage light illuminates? _____

42. How can you attempt to remedy a low or over-voltage condition? _____

43. Does the aircraft have an alternate static source? If so, where is it, and how do you activate it? _____

44. Describe the flaps. How are they used? What are the settings? What are the flap limitations? _____

Stall and Spin Awareness

45. What is a stall? _____

46. Describe the procedures for a recovery from the appropriate stall.

Power-Off: _____

Power-On: _____

47. What is an accelerated stall? How do you recover? _____

48. What is a spin? _____

49. What is the spin recovery procedure for this airplane? _____

50. Why is it important to recover quickly and smoothly from a spin? _____

51. Explain what will happen to an aircraft in a stall/spin situation if the CG is too far aft? _____
