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?

Vr_____ Vx_____ Vy_____

Vs_____ Vso_____ Vno_____

Vne_____ Va_____ Vfe_____

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

_____

3. Does Va 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 KRYY 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?_____

_____

_____