



C-172RG Checkout Questionnaire

Pilot's Name \_\_\_\_\_ Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Total Flight Time \_\_\_\_\_ Total Complex Time \_\_\_\_\_

1. List the following V-speeds for the aircraft in KIAS:

V <sub>so</sub> _____	V <sub>x</sub> _____	
V <sub>s</sub> _____	V <sub>y</sub> _____	Best Glide _____
V <sub>fe</sub> _____	V <sub>lo</sub> _____	
V <sub>no</sub> _____	V <sub>le</sub> _____	
V <sub>ne</sub> _____	Approach (Flaps Down) _____	
V <sub>a</sub> _____	Max Demonstrated Crosswind _____	

2. What is max takeoff weight? \_\_\_\_\_ What category(ies) is/are this aircraft certified under? \_\_\_\_\_

3. List the appropriate actions upon having an engine failure during flight:

4. Are touch and goes allowed in this aircraft?

5. When do we retract the flaps in this aircraft?

6. Given: Departure from RYY 20°C, zero wind and max weight.  
Determine the takeoff distance over a 50' obstacle using the SHORT FIELD T/O technique.

7. What is the endurance at 8,000' & standard temp at 65% power?

8. Determine weight and balance.

	Weight	Arm	Moment
BEW			
Pilot & Pass	400		
Rear Occupants	170		
Baggage A	120		
Baggage B	0		
Zero Fuel Weight			
Zero fuel CG			
Fuel @ 6 LBS/GAL (full)			
Ramp Weight			
Taxi Fuel Allowance			
Takeoff Weight			
CG Location			

Is the aircraft within CG limits?

9. Describe the Engine:

What is the Max RPM and Rated Horsepower?

What is the Oil Capacity? Minimum allowable?

What is the purpose of the cowl flaps? What is the proper procedure for their use?

10. Why do we lean this engine for start/taxi/takeoff/climb?

11. Describe the Propeller:

12. How does the governor regulate pitch?

13. With respect to mixture, prop and throttle, what is the proper procedure for:

(a) Decrease in power:

(b) Increase in power:

14. Fuel System (Long Range Tanks):

- (a) Total Fuel Capacity
- (b) Total Useable Fuel
- (c) How many positions are available on the fuel selector?
- (d) How many fuel vents are there?
- (e) What will happen if the tanks are not vented properly?
  
- (f) How many fuel drains are there?
- (g) What position should the fuel selector be in for takeoff, climbs, descents, slips, skids, and maneuvers?
- (h) Why should you put the fuel selector in left or right position when refueling?
  
- (i) When should the Auxiliary Fuel Pump be used?

15. Describe the Starting Procedure (normal):

16.. Describe the Landing Gear system:

17. How do you manually extend the gear?

18. How can you verify that the gear is down and extended?

19. Where and how many squat switches are there?

Why might this location(s) be a problem?

20. Describe the gear warning system?

21. Electrical System:

- (a) What is the system voltage? What is the battery voltage?
- (b) How is the system powered?
- (c) Where is the battery located?
- (d) What takes the alternator off line in the event of an over-voltage condition?
- (e) How do you get the alternator back on line?
- (f) How are the electrical circuits protected?
- (g) When starting by external power, what position should the master switch be in?

22. What is a stall?

23. How do you recover from a stall (Power-Off / Power-On).

Power-Off:

Power-On:

What has to happen *first* before an airplane enters a spin?

What's the SPIN RECOVERY procedure for this airplane?

Why is it important to recover from a spin both quickly and smoothly?