



C-172S Checkout Questionnaire

Name _____ Date _____

Certificate and Ratings _____ Certificate # _____

Total Time _____ Instructor (if applicable) _____

Airspeeds

1. What are the following V speeds in KIAS?

Vr _____ Vs _____
Vy _____ Vfe _____
Vx _____ Vno _____
Va _____ Vne _____
Vso _____ Best Glide Speed _____

Emergency Procedures

1. Describe the emergency checklist to follow when the engine has failed in flight.
2. What actions should be taken if there is smoke in the cockpit?
3. What should we do if we experience low or high oil pressure?
4. What action should be taken if you experience partial power loss?
5. Describe the procedure to use for a forced landing?
6. What should be done if the ammeter indicates excessive discharge or overcharge during flight?

NORMAL PROCEDURES

1. List the procedures to be followed for a normal engine start?

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

2. Explain the procedure for starting a hot engine.

3. Prior to takeoff, what position should the fuel pump switch be on?

4. When do we lean the mixture? Describe the procedure.

5. What is the normal approach speed? Short field?

Performance

1. Given: 20°C, 9 kt. headwind, P/A 1,000' paved dry runway and max weight. Determine the takeoff distance over a 50' obstacle using the SHORT FIELD T/O technique.

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

Weight and Balance

1. What is max takeoff weight?
2. Determine how much fuel can be carried without exceeding max takeoff weight?

	Weight	Arm	Moment
BEW	_____		
Pilot & Pass	400	_____	
Rear Occupants	200	_____	
Baggage A	20	_____	
Baggage B	0	_____	
Zero Fuel Weight	_____		
Fuel @ 6 LBS/GAL	318	_____	
Ramp Weight	_____		
Taxi Fuel Allowance	_____		
Takeoff Weight	_____		
CG Location	_____		

3. Is the aircraft within CG limits? If not, show how we can be in CG limits.
4. What aircraft category(ies) is/are the aircraft certified under?
5. What is the maximum allowable weight in the baggage compartment A? B?

SYSTEMS

1. What type of engine does the aircraft have? (specify make and model)
2. What is the engine's maximum rated horsepower and RPM?
3. What is the total fuel capacity? What is the total usable?
4. How many fuel drains are there under each wing?
5. How many fuel drains are there on the underside of the forward fuselage?
6. How many positions does the fuel selector have, and what are they?
7. How is fuel shutoff accomplished?
8. How many engine driven vacuum pumps does the airplane have?
9. What types of fuel are approved?
10. What is the total oil capacity? What is the minimum capacity for normal flight operations?

11. What is the voltage of the battery? Where is the battery located in the aircraft?
12. Describe the electrical system.
13. What has happened when the low voltage light illuminates?
14. How can the pilot attempt to remedy a low or over-voltage condition?
15. Does the aircraft have an alternate static source? If so, where is it, and how do you activate it?
16. Why are flaps used? What are the settings? At what speed do you lower the flaps? What are the limitations?

Stall and Spin Awareness

1. What is a stall?
2. How do you recover from a stall (Power-Off / Power-On).

Power-Off: _____

Power-On: _____

3. What has to happen *first* before an airplane enters a spin?
4. What is the SPIN RECOVERY procedure for this airplane?
5. Why is it important to recover from a spin both quickly and smoothly?

- The End -