PILOT	
INSTRUCTOR	
DATE	

Cessna	a 172R 6-Month Quiz	Tail: N6121V			6-23-2004	
1.	Maximum normal category ta Useful normal category load: Empty weight:	0 0	lbs. lbs. lbs.			
2.	What is the maximum landing weight?					
3.	Maximum baggage load "A"	, "B"	"A" + "B"			
4.	Engine manufacturer	, BHP	@	RPM.		
5.	Propeller type					
6.	Fuel capacity of 6121V	gals, usable fuel	gals.			
7.	How many fuel system drains are there?, where are they located?					
8.	What are the values for the following (indicated) airspeeds? Vso Vs Vs Vx Vy Va Va Vno Takeoff rotate Best glide (at max gross weight) Go around Vle Vlo Many retractable gear airplanes operate with a difference between Vle and Vlo speeds.					
9.	What is the oil capacitya. Minimum oil capacity forb. Normal oil capacity for flc. Oil capacity for extended	ights less than 3 hou				

10. What are the approved fuel grades / colors? _____, ____, _____.

- 11. Under what category is this airplane certified?
- 12. What maneuvering limits are imposed on this airplane?
- 13. What prevents landing gear retraction during ground operations and where is it located?
- 14. Should a landing gear position indicating light fail to illuminate, what can be done to verify that the circuit is operating properly?
- 15. Where is the hydraulic power pack located?
- 16. When in the traffic pattern, the downwind leg should be flown _____ of I405.
- 17. At what altitude should a pilot cross the "white water tower" when directed to cross over it on the 45? _____
- 18. On approach for landing, what is the minimum descent altitude over the noise sensitive areas of Kennydale and Renton East Hill?
- 19. What concerns override noise abatement procedures? ______ and _____
- 20. In BEFA complex aircraft, after takeoff the pilot should reduce power to and propeller RPM to ______ at or below what altitude? ______
- 21. In BEFA complex aircraft, on approach for landing, the pilot should not increase the propeller to full until power has been reduced to a maximum of how many inches Hg? _____.
- 22. What provision is there to check the hydraulic fluid level?______.
- 23. At what intervals of time should the hydraulic fluid level be checked?______.
- 24. What are the steps to be taken if the landing gear fails to retract?_____
- 25. What are the two ways to activate the landing gear warning horn so that an inadvertent gear up landing can be prevented?______
- 26. Electrical energy is provided by a ______volt, direct driven system powered by an engine driven _____amp alternator. What is the battery voltage and amp-hour rating?______
- 27. During engine starting and shut-down procedures, what action should be taken regarding the avionics?
- 28. What steps should be taken if the electrical system malfunctions and the over voltage light illuminates?
- 29. What is the procedure during cruise if the ammeter indicates a steady discharge?_____

- 30. During normal operation in cruise flight, should the fuel tank indicator suddenly register empty, what other instruments should be checked in order to determine if there is a zero fuel problem or an electrical problem?
- 31. During cruise flight, the cowl flaps should be _____. This position may be altered as a function of what instrument reading?_____.
- 32. If the fuel pressure falls below _____PSI, what action should be taken to maintain adequate pressure to the engine?_____
- 33. If an engine failure occurs immediately after take-off what is the best airspeed to achieve with flaps up? _____. With flaps down? _____.
- 34. What is the desired precautionary landing speed with engine power? ______.
- 35. What are the desired speeds for landing without engine power with flaps up? _____. With the flaps down? _____.
- 36. Determine the take-off distance and landing distance for the following conditions: Full fuel and maximum gross weight. Take-off conditions runway 13, field PA 2000 feet, temperature 85F, wind 120/10, grass surface. Landing conditions runway 25, field PA 1000 feet, temperature 70F, wind 240/20 grass surface. Find the ground roll ______ and total take-off distance over a 50 foot obstacle _______. Find the landing distance over a 50 foot obstacle _______.
- 37. In s fuel critical situation, what is the best altitude (approximately), standard temperature day, for the best range? ______. What is the MP/RPM/KTAS for the best range _____, ____, , which equals what % BHP? ______. (Consider the fact that if a climb is necessary to reach optimum altitude, more fuel will be consumed and the altitude advantage will be lost). What is the best altitude for best endurance? ______.
- 38. For a minimum of one hour of usable fuel in the tanks upon landing, how do you determine the number of gallons this represents? _______. What is your estimate of one hour of usable fuel?
- 39. What is the significance of the yellow arc on the carburetor air temp gage?