

PILOT \_\_\_\_\_

INSTRUCTOR \_\_\_\_\_

DATE \_\_\_\_\_

**Cessna 182R Quiz**

**Tail: N7568T**

**06-29-08**

1. Maximum normal category takeoff gross weight: \_\_\_\_\_ lbs.  
Useful normal category load: \_\_\_\_\_ lbs.  
Empty weight: \_\_\_\_\_ lbs.
2. What is the maximum landing weight? \_\_\_\_\_ lbs.
3. Maximum baggage load "A" \_\_\_\_\_, "B" \_\_\_\_\_.
4. Engine manufacturer \_\_\_\_\_, BHP \_\_\_\_\_ @ \_\_\_\_\_ RPM.
5. Propeller type \_\_\_\_\_.
6. Fuel capacity of N7568T \_\_\_\_\_ gals, usable fuel \_\_\_\_\_ gals.
7. How many fuel system drains are there? \_\_\_\_\_, where are they located? \_\_\_\_\_
8. Tire pressures are \_\_\_\_\_ for the nose tire and \_\_\_\_\_ for the main tires?
9. What are the values for the following (indicated) airspeeds?

V <sub>so</sub>	_____	
V <sub>s</sub>	_____	
V <sub>x</sub>	_____	
V <sub>y</sub>	_____	
V <sub>a</sub>	_____	(at max gross weight)
V <sub>no</sub>	_____	
V <sub>ne</sub>	_____	
Takeoff rotate	_____	
Best glide	_____	(at max gross weight)
Go around	_____	at Flaps _____°
V <sub>le</sub>	_____	
V <sub>lo</sub>	_____	
10. What is the oil capacity \_\_\_\_\_.
  - a. Minimum oil capacity for short duration flights \_\_\_\_\_.
  - b. Normal oil capacity for flights less than 3 hours \_\_\_\_\_.
  - c. Oil capacity for extended flights \_\_\_\_\_.
  - d. For local flights oil would not be added above \_\_\_\_\_ qt.?
11. What are the approved fuel grades / colors? \_\_\_\_\_ / \_\_\_\_\_, \_\_\_\_\_ / \_\_\_\_\_.

12. Under what category is this airplane certified? \_\_\_\_\_
13. What maneuvering limits are imposed on this airplane?  
\_\_\_\_\_
14. What prevents landing gear retraction during ground operations and where is it located?  
\_\_\_\_\_
15. Should a landing gear position indicating light fail to illuminate, what can be done to verify that the circuit is operating properly? \_\_\_\_\_
16. Where is the hydraulic power pack located? \_\_\_\_\_
17. When in the traffic pattern at Renton, the downwind leg should be flown \_\_\_\_ of I405.
18. At what altitude should a pilot cross the "white water tower" when directed to cross over it on the 45? \_\_\_\_\_
19. On approach for landing, what is the minimum descent altitude over the noise sensitive areas of Kenndale and Renton East Hill? \_\_\_\_\_
20. What concerns override noise abatement procedures? \_\_\_\_\_ and \_\_\_\_\_
21. In N7568T, after takeoff the pilot should reduce power to top of the green and propeller RPM to bottom of the green at or below what altitude? \_\_\_\_\_
22. In N7568T, 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? \_\_\_\_\_.
23. What provision is there to check the hydraulic fluid level? \_\_\_\_\_.
24. At what intervals of time should the hydraulic fluid level be checked? \_\_\_\_\_.
25. What are the steps to be taken if the landing gear fails to retract? \_\_\_\_\_  
\_\_\_\_\_
26. What are the two ways to activate the landing gear warning horn so that an inadvertent gear up landing can be prevented? \_\_\_\_\_
27. Electrical energy is provided by a \_\_\_\_\_ volt, direct current system powered by an engine driven \_\_\_\_ amp alternator. What is the battery voltage and amp-hour rating? \_\_\_\_\_
28. During engine starting and shut-down procedures, what action should be taken regarding the avionics? \_\_\_\_\_
29. What steps should be taken if the electrical system malfunctions and the over voltage light illuminates? \_\_\_\_\_

30. What is the procedure during cruise if the ammeter indicates a steady discharge? \_\_\_\_\_
31. 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? \_\_\_\_\_
32. During cruise flight, the cowl flaps should be \_\_\_\_\_. This position may be altered as a function of what instrument reading? \_\_\_\_\_
33. If the fuel pressure falls below \_\_\_\_\_ PSI, what action should be taken to maintain adequate pressure to the engine? \_\_\_\_\_
34. The electrical trim switch has a protective device to prevent trim runaway. Where is this device located? \_\_\_\_\_. What is the preflight check to assure that this device is functioning properly? \_\_\_\_\_
35. If an engine failure occurs immediately after take-off what is the best airspeed to achieve with flaps up? \_\_\_\_\_. With flaps down? \_\_\_\_\_.
36. What is the desired precautionary landing speed with engine power? \_\_\_\_\_.
37. What are the desired speeds for landing without engine power with flaps up? \_\_\_\_\_. With the flaps down? \_\_\_\_\_.
38. What is the full fuel CG location for you and your usual right seat passenger? \_\_\_\_\_
39. What airplane handling characteristics should you expect with a forward CG? \_\_\_\_\_
40. 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 \_\_\_\_\_, and the ground roll \_\_\_\_\_.
41. What would be the ground roll \_\_\_\_\_ and takeoff distance over a fifty foot obstacle on runway 07, same conditions? \_\_\_\_\_ .
42. In a 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? \_\_\_\_\_.
43. 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? \_\_\_\_\_ .

44. What is the significance of the yellow arc on the carburetor air temp gage? \_\_\_\_\_.
45. What type of landings are permitted in BEFA retractable gear airplanes? \_\_\_\_\_
46. To act as PIC in N7568T, a BEFA member must complete a checkride with a BEFA CFI or have \_\_\_\_\_ hours and \_\_\_\_\_ landings within \_\_\_\_\_ days in C182RG aircraft.
47. On the GNS 480 MAP1, MAP2, and MAP3 pages, what is the only thing that should be adjusted by BEFA members? \_\_\_\_\_
48. On the GNS 480 MAP1, MAP2, and MAP3 pages, what control is used to make the adjustment referenced in the previous question? \_\_\_\_\_
49. What avionics device provides COM1 and NAV1 for the aircraft?  
\_\_\_\_\_
50. What is the sequence of buttons and/or knobs to be pressed in order to change the COM1 frequency?  
\_\_\_\_\_
51. What is the procedure to identify the active NAV1 station?  
\_\_\_\_\_
52. What determines if the #1 CDI display is the GPS course or a NAV course?  
\_\_\_\_\_
53. On the 330 Transponder, identify three timer functions:  
1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_
54. What does the 330 Transponder automatically do on Takeoff and Landing?  
\_\_\_\_\_
55. Traffic identified by the Traffic Information System will be displayed on what avionics?  
1. \_\_\_\_\_  
2. \_\_\_\_\_
56. Identify several conditions when the Traffic Information System may be unable to display traffic that might be a collision/safety hazard:  
1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_
57. After a TRAFFIC ALERT, what action(s) is/are required by the pilot before other functions can be performed on the 480?  
\_\_\_\_\_