

PILOT \_\_\_\_\_

INSTRUCTOR \_\_\_\_\_

DATE \_\_\_\_\_

Cessna 182R Initial Quiz

Tail: N2365C

04-17-08

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 N2365C \_\_\_\_\_ 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 N 2365C, 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 N2365C, 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. Is the elevator trim system the same in N2365C as in N7568T? \_\_\_\_\_
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 N2365C, a BEFA member must complete a checkride with a BEFA CFI or have \_\_\_\_\_ hours and \_\_\_\_\_ landings within \_\_\_\_\_ days in C182RG aircraft.
47. On the Garmin 340 Audio Panel, what knob and position controls the passenger intercom volume?  
\_\_\_\_\_
48. On the GNS 480 MAP1, MAP2, and MAP3 pages, what is the only thing that should be adjusted by BEFA members? \_\_\_\_\_
49. On the GNS 480 MAP1, MAP2, and MAP3 pages, what control is used to make the adjustment referenced in the previous question? \_\_\_\_\_
50. What avionics device provides COM1 and NAV1 for the aircraft?  
\_\_\_\_\_
51. What is the sequence of buttons and/or knobs to be pressed in order to change the COM1 frequency?  
\_\_\_\_\_
52. What is the procedure to identify the active NAV1 station?  
\_\_\_\_\_
53. What determines if the #1 CDI display is the GPS course or a NAV course?  
\_\_\_\_\_
54. On the JPI Engine Monitor, what will be the first action required by the PIC after engine start?  
\_\_\_\_\_
55. On the JPI Engine Monitor, what is the significance of a flashing data value?  
\_\_\_\_\_
56. On the SL30 NAV/COM, what button must be pushed to initiate each of the following functions?
1. Enter a COM frequency: \_\_\_\_\_
  2. Enter a NAV frequency: \_\_\_\_\_
  3. Identify a VOR: \_\_\_\_\_
  4. Display the VOR bearing/radial \_\_\_\_\_
57. On the 330 Transponder, identify three timer functions:
1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
58. What does the 330 Transponder automatically do on Takeoff and Landing?  
\_\_\_\_\_

59. NEXRAD weather displayed on the GMX200 could be as old as \_\_\_\_\_ minutes and should be used for [strategic / tactical] weather avoidance (*circle correct choice*)
60. Traffic identified by the Traffic Information System will be displayed on what avionics?  
1. \_\_\_\_\_  
2. \_\_\_\_\_
61. Identify several conditions when the Traffic Information System may be unable to display traffic that might be a collision/safety hazard:  
1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_
62. List the Approved Flight Manuel Supplement Limitations on the use of the S-tec System 50 autopilot that must be observed by the PIC:  
1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_
63. What is GPSS? \_\_\_\_\_
64. What is the purpose of the GPSS/HDG switch and indicator light?  
\_\_\_\_\_
65. What is the significance of a flashing GPSS indicator light?  
\_\_\_\_\_
66. In order to navigate cross-country with the autopilot using guidance from GPSS, the autopilot should be placed in what lateral autopilot mode? (*Circle the correct answer.*)  
a. STB  
b. HDG  
c. NAV  
d. APR  
e. REV  
f. Any of the above  
g. None of the above
67. Where is the Secondary Seat Stop installed and what is the purpose?  
\_\_\_\_\_
68. What information should be given to passengers during a pre-flight briefing with respect to the Secondary Seat Stop?  
\_\_\_\_\_