

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 _{so}	_____	
V _s	_____	
V _x	_____	
V _y	_____	
V _a	_____	(at max gross weight)
V _{no}	_____	
V _{ne}	_____	
Takeoff rotate	_____	
Best glide	_____	(at max gross weight)
Go around	_____	at Flaps _____°
V _{le}	_____	
V _{lo}	_____	
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 Manual 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?
