Yankee Flying Club Cessna R182RG Checkout

Pilot Information

Name _____ Pilot Certificate Number _____

Address _____ City _____ State _____ Zip _____

Home Phone _____ Work Phone _____ E-Mail _____

Certificates and Ratings _____

Class of Medical _____ Date of Medical _____

Total Time _____ Instrument Time: Sim. _____ Actual _____ Last Six Months _____

General

Engine manufacturer & model: _____ Maximum horsepower: _____ @ _____rpm

Fuel capacity: total _____ usable _____ Oil capacity: min. _____ max. _____

Required fuel grade(s) _____ When should you add oil? _____

Airspeeds (fill in the indicated airspeeds that correspond to the descriptions or V-speed abbreviations)

Vso _____ Vs1 _____ Vrot _____

Va (at max. gross) _____ Va (at 2550 lbs) _____ Va (at 2000 lbs) _____

Vno _____ Vne _____ Go-around (20° flaps) _____

Vx _____ Vy _____ Enroute climb _____

Vg (at max. gross) _____ Vg (at 2550 lbs) _____ Vg (at 2000 lbs) _____

Normal landing (flaps up) _____ Normal landing (20° flaps) _____ Short field landing (full flaps) _____

Vfe (10° flaps) _____ Vfe (20° or more flaps) _____ Vlo/Vle _____

What is the maximum demonstrated crosswind velocity for the R182? _____

Emergency Procedures

1. Approximately how far will the R182 glide (at best glide speed) with power off and no wind from 2000' AGL?

_____

2. In what position should the flaps and landing gear be to achieve maximum glide distance? _____

_____

3. If an inadvertent spin is entered in the R182, what steps should be taken to recover? _____

_____

_____

4. If the engine driven vacuum pump were to fail, what procedures should be used for continued safe flight until a landing can be made for repairs? _____

_____

5. Briefly describe the readings you will typically see on the ammeter? _____

6. What condition has occurred when the high voltage light illuminates and what should be done to correct the situation? How can this situation be simulated? _____

7. During your preflight inspection, you suspect that one of your landing gear indicator lights is burned out. How can you confirm this? Can you still go flying? Why or why not. _____

8. After takeoff, the landing gear will not retract. Is this an emergency situation and if so, should the gear be pumped up by hand? _____

9. Describe the emergency landing gear extension procedure. _____

Normal Procedures

1. How many fuel drains are there and where are they located? _____

2. How many sources of fuel pressure are there for this aircraft? _____

3. When should the electrically operated fuel pump be used? _____

4. When the aircraft is airborne and the fuel selector is in the left tank position, how can fuel cross-feed from the right to the left tank? _____

5. What can happen if the fuel vents become completely blocked? _____

_____

6. Why, in the securing airplane section of the checklist, is it indicated that the fuel selector should be placed in the right tank position? _____

_____

7. When using the Exhaust Gas Temperature (EGT) gauge to lean the fuel to the engine how many divisions, major or minor, on the rich side of peak should the engine be leaned to? _____

_____

8. If during an oil change, seven (7) quarts of oil are installed in the engine, why, after a short engine run up, could the dipstick not indicate more than six (6) quarts? _____

_____

9. Most electrical circuits, on this aircraft are protected by circuit breakers. Fuses protect two circuits. What circuits are they and where are the fuses located? _____

_____

10. Different instrument lighting circuits such as floods, post, engine instrument, etc. are controlled by different dimmer controls. Which circuit controls the compass light?

_____

11. During engine run-up, what are the limits for RPM drop on each magneto and between magnetos?_____

_____

12. Why should the avionics master switch be turned off prior to engine start and shutdown? _____

_____

13. After starting the engine what is the maximum time allowed before oil pressure is established in summer and winter? _____

_____

14. At what point during a normal takeoff should the landing gear be retracted? How about the flaps? _____

_____

_____

15. At what point during a flight (engine start to shut down) could the landing gear horn be expected to sound?

16. Where is the landing gear power pack located?

17. If when attempting to lower the landing gear the gear down indicator fails to illuminate what, sequence of checks should be accomplished?

18. If immediately after take-off the landing gear pump cycles (on and off) and the ammeter shows a momentary full discharge what has happened?

19. When the aircraft is airborne, what will happen when the landing gear lever is placed in between the up and down positions?

20. How can you disable the electric elevator trim in case of a runaway trim system?

21. What is the normal takeoff position for the elevator trim with 0, 10, 20 degrees of flaps?

22. During runup, you should cycle the propeller from high to low RPM then return to high RPM. What does this accomplish?

23. Briefly describe why and when you would use the propeller adjustment.

24. If the propeller governor system were to become inoperative, what would happen to the propeller and would this be a problem?

25. What power and propeller settings should be used after takeoff for most normal climbs?

26. Why is the R182 equipped with cowl flaps and when and how should they be used? _____

_____

_____

Aircraft Performance

1. Perform the following calculations using the conditions provided:

Field Elevation	1000’	T/O Distance (50’ obs.)	_____
Temperature	75 degrees F	Rate of Climb	_____
Weight	Max Gross	Landing Distance (50’ obs.)	_____
Wind	10 Kt. Headwind		
Runway	Hard Surface		
Altimeter Setting	29.92		

Field Elevation	5000’	T/O Distance (50’ obs.)	_____
Temperature	86 degrees F	Rate of Climb	_____
Weight	Max Gross	Landing Distance (50’ obs.)	_____
Wind	Calm		
Runway	Hard Surface		
Altimeter Setting	29.42		

2. What power setting will yield 75% power at 3000’ MSL on a standard day? _____

3. What is the TAS and fuel flow at the power setting in the above question? _____

Weight and Balance

Using the information below (N6027C), perform a weight and balance calculation for the conditions given. If the results are over gross weight or out of CG range, alter the load to correct the problem.

Empty Weight: 1877 lbs. Moment: 65.61 Gross Weight: 3100 lbs. Useful Load: 1223 lbs.

Condition: Full fuel, 180# passenger in each seat, 150# baggage.

Ground Instruction Hours _____ Flight Instruction Hours _____

Remarks _____

_____

I certify that the instruction noted above was given. *I certify that the instruction noted above was received.*

_____ _____ _____ _____ _____ _____

Instructor Signature Cert. No. Exp. Date Pilot Signature Date