



COLORADO FLIGHT CENTER

AIRCRAFT REVIEW

Aircraft Make and Model: **Cessna 182T**

Pilot Name: _____ Date: _____

All aircraft documents may be used for this review.

1. What is the total fuel capacity? _____
2. How many fuel tanks are there? _____
3. What is the capacity of each tank? _____
4. What is the total useable fuel capacity? _____
5. What is the correct fuel grade? _____
6. What is the color of the correct fuel grade? _____
7. Where are the fuel drains located? _____
8. When should they be drained? _____
9. What is the recommended grade and type of oil? _____
10. What is the minimum operating oil level? _____
11. What is the aircraft empty weight? _____
12. What is the useful load? _____
13. What is the maximum aircraft gross weight? _____
14. What is the best rate of climb airspeed (V_y)? _____
15. What is the best angle of climb airspeed (V_x)? _____
16. What are the recommended normal approach airspeeds?
Downwind: _____
Base: _____
Final: _____
17. What is the recommended short field final approach airspeed? _____
18. What is the recommended short field final approach flap setting? _____
19. What is the recommended soft field takeoff procedure? _____

20. What effect does reducing gross weight have on the maneuvering speed? _____
21. What is the stall speed with full flaps (V_{s0})? _____
22. What is the stall speed with full flaps and a 60° bank angle? _____
23. What is the maximum crosswind component for your aircraft (20% V_{s0})? _____
24. What is the purpose of flaps? _____
25. What is the power setting, fuel consumption, and true airspeed for 60% power at 8000 feet and standard temperature?
RPM: _____ Fuel Consumption: _____
MP: _____ TAS: _____
26. What would be the indication of alternator failure in your aircraft? _____

27. Where is the alternate static source located in your aircraft? _____
28. What changes in pitot-static instruments would you expect if you were using the alternate static source? _____

29. What do you do in the event of a runaway autopilot? _____

30. What are the minimum runway lengths for takeoff in your aircraft under the following conditions?
 Max gross weight, no wind, sea level, 20°C: _____
 Max gross weight, no wind, 7000 feet, 30°C, 50-ft obstacle: _____
31. When are your passengers required to have their seat belts and shoulder harnesses fastened? _____

32. What is the highest altitude that you can maintain without supplemental oxygen? _____
33. What aircraft documents are required to be onboard during flight? _____

34. What are the basic VFR weather minimums in Class D airspace?
 Ceiling: _____
 Visibility: _____
35. VFR cruising altitudes are required above what minimum altitude? _____
36. What inspections are required on your aircraft? _____

37. Explain the proper procedures for leaning the mixture: _____

38. What is the recommended lean setting with respect to EGT? _____
39. What is the normal (ideal) cylinder head temperature? _____
40. What is the normal (ideal) oil temperature? _____
41. Explain how to handle the "care and keeping" of your engine **on climb out** after departure. You should monitor:
 _____ and _____
42. List five actions you can take to counteract an over-heating engine: _____

43. Explain how to handle the "care and keeping" of your engine **on descent**. _____

44. When should cowl flaps be open? _____
 When should they be closed? _____
45. What does "shock cooling" mean? _____
46. How can you prevent shock cooling? _____