



COLORADO FLIGHT CENTER

AIRCRAFT REVIEW

Aircraft Make and Model: **Piper PA-34-220T "Seneca V"**

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 maximum operating altitude? _____
15. What is the single-engine service ceiling at maximum gross weight and standard temperature? _____
16. What is the best rate of climb airspeed (V_Y)? _____
17. What is the best angle of climb airspeed (V_X)? _____
18. What is the blue line on the airspeed indicator? _____
19. What is the best single-engine rate of climb speed (V_{YSE})? _____
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? _____
24. What is the purpose of flaps? _____
25. What is the maximum speed for gear extension? _____
26. What is an unsafe gear indication? _____
27. What is the procedure for emergency gear extension? _____
28. Is this aircraft approved for flight into known-icing conditions? _____
29. What are the deicing and anti-icing systems on this aircraft? _____
- _____
30. What is the source of power for the deicing and anti-icing systems? _____
31. What is the power setting, fuel consumption, and true airspeed for normal cruise power at 18000 feet and standard temperature?

RPM: _____ Fuel Consumption: _____
MP: _____ TAS: _____

32. What is the accelerate-stop distance under the following conditions?
 Max gross weight, no flaps, no wind, 7000 feet, 30°C: _____
 Max gross weight, flaps 25°, no wind, 7000 feet, 30°C: _____
33. When are your passengers required to have their seat belts and shoulder harnesses fastened? _____

34. What is the highest altitude that a canula can be used to deliver oxygen? _____
35. What action do you take in the event of an autopilot malfunction? _____
36. What is the proper procedure for use of the propeller synchrophaser system? _____

37. When should a propeller be feathered? _____
38. What prevents the propellers from feathering on the ground? _____
39. Where is the cabin heater located? _____
40. How does the cabin heating system operate? _____
41. When must the cabin heater switch be set to the "fan" position, and for how long? _____

42. Which tank does the cabin heater draw fuel from? _____
43. What is the cabin heater fuel consumption? _____
44. How does the air conditioning system operate? _____
45. Where is the battery located? _____
46. What is the electrical system voltage? _____
47. Does this aircraft have an external power receptacle? _____
48. What is the start procedure when using external power for starting? _____

49. What is the normal (ideal) cylinder head temperature? _____
50. What is the normal (ideal) oil temperature? _____
51. What is the normal (ideal) turbine inlet temperature? _____
52. Explain the proper procedures for leaning the mixture: _____

53. Explain how to handle the "care and keeping" of your engines **on climb out** after departure. You should monitor:
 _____ and _____
54. List five actions you can take to counteract an over-heating engine: _____

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

56. When should cowl flaps be open? _____
 When should they be closed? _____
57. What does "shock cooling" mean? _____
58. How can you prevent shock cooling? _____

Reviewed by: _____ Date: _____