Colorado Flight Center

AIRCRAFT REVIEW

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

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 usable 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's 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) sea level and 10,000ft?_____
15. What is the best angle of climb airspeed (V_x) sea level and 10,000ft?_____
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 60º bank angle?_____

23. What is the maximum crosswind component for this aircraft?_____

24. What is the purpose of flaps?_____

25. How many vacuum pumps are there?_____

_____

26. What is the fuel consumption, and true airspeed for 58% power at 8000 feet, 2300 rpm and standard temperature?

    MP:_____

    Fuel consumption:_____

    TAS:_____

27. What would be the indication of alternator failure in this aircraft?_____

_____

28. Where is the alternate static source located in this aircraft?_____

29. What changes in pitot-static instruments do you expect when you are using the alternate static source?

30. What are the minimum runway lengths for landing in your aircraft under the following conditions?

    Weight: Max Landing Weight

    Winds: Calm

    Field Elevation: 3050 ft

    Density Altitude: 5820 ft

    Temperature: 20ºC:

    _____

    _____

    _____

31. When are your passengers required to have their seat belts and shoulder harnesses fastened?

32. What aircraft documents are required to be onboard during flight?

33. What are the minimum runway lengths for takeoff in your aircraft under the following conditions?

Weight: Max Takeoff

Winds: 160° 10kts

Field Elevation: 7000 ft

Temperature: 30ºC

There's a 50-ft tower at the departure end of the runway

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 this aircraft?

37. If you were to lose oil pressure what would happen to the pitch attitude of the constant speed propeller?

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38. What causes a prop overspeed condition?
