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Single-Engine Renter's Questionnaire

This form is to be used as an aid in reviewing FAR Part 91, fundamental specifications, mechanical systems, and procedures for the aircraft flown. Utilize all available aircraft documentation to aid in this review (e.g. AFM, POH, placards or markings). After completion and review by instructor, this form will become part of the pilot's insurance file.

Note: Not All Questions Apply to All Aircraft.

Pilot: _____ Date: _____

Aircraft Make & Model: _____

1. How many fuel tanks are there? _____
2. What is the capacity of each tank? _____ What is the total capacity? _____
3. What is the total useable fuel capacity? _____
4. What is/are the useable fuel Grade(s)? _____ Color(s)?_____
5. Where are the fuel drains/sumps located?_____
6. When are they drained? _____
7. What is the recommended grade and type of oil to be used? _____
8. What is the minimum operating oil level? _____ Maximum oil level? _____
9. What is the aircraft basic empty weight? _____
    a. Does basic empty weight include oil? _____
    b. Does basic empty weight include unusable fuel? _____
10. What is the useful load? _____
11. Give the following weights:
    a. Maximum Takeoff Weight: _____
    b. Maximum Landing Weight: _____
    c. Maximum Ramp Weight: _____
12. What is the Center of Gravity Range at maximum takeoff weight? _____

13. What is the recommended short-field takeoff procedure?_____
_____

14. What is the recommended short-field final approach speed? _____ Flap Setting? ____

15. What is the recommended short-field landing procedure? _____
_____

16. What is the recommended soft-field takeoff procedure? _____
_____

17. What is the recommended soft-field climb-out speed? _____ Flap Setting? _____

18. What is the recommended soft-field final app. speed? _____ Flap Setting? _____

19. What is the recommended soft-field landing procedure? _____
_____

20. What is the recommended normal climb-out speed? _____ Flap Setting? _____

21. What is the recommended normal approach speed? _____ Flap Setting? _____

22. What is the best rate of climb (V_y) at sea level? _____

23. What is the best angle of climb (V_x) speed? _____

24. What is the maneuvering speed (V_a) range? _____

25. What effect does reducing gross weight have on V_a? _____

26. What is the stall speed in landing configuration (V_{so})? _____

27. What is the maximum demonstrated crosswind component? _____

28. What is the purpose of flaps? _____
_____

29. What are the indications of carburetor ice? _____

30. In the event of carburetor ice, what do you do? _____
_____

31. What is the power setting, fuel consumption and true airspeed for the following:

    60% Power, 8,000ft., Standard Temperature

    a. RPM? _____
    b. Fuel Consumption? _____
    c. True Airspeed? _____

32. What would be the indication of an alternator or generator failure? _____
_____

33. What is the “Go Around” procedure? _____
_____

34. Calculate the following takeoff distances:
    a. Max. Gross Weight, no wind, sea level, and standard temp? _____
    b. Max. Gross Weight, 8 kt. Headwind, 2000ft, 86° F, 50ft obstacle? _____
35. When are passengers, required to have their seat belts fastened? _____
36. What documents must be onboard during flight? _____
    _____
37. Provide the basic VFR weather minimums for flight in Class E airspace, below 10,000ft MSL.
    a. Visibility? _____
    b. Ceiling? _____
38. Cloud Clearance: Above? _____ Below? _____ Side? _____
39. VFR cruising altitudes (odds + 500 / evens ± 500) are required above what altitude? _____
40. What inspections are required for this aircraft? _____
    _____
41. Does this aircraft have an alternate static source? _____ If so, where?_____
42. What instrument(s) will be affected by the use of an alternate static source? _____
    _____
43. What changes will be experienced if you use your alternate static source in flight?
    _____
44. What is V_{LE}: _____ What is V_{LO}: _____ Emergency Gear Extension speed: _____
45. What is the Emergency Gear Extension Procedure? _____
    _____
46. List the Lantana CTAF, AWOS and practice area frequencies. _____
47. What frequency do the skydivers at Loxahatchee announce on? _____
48. Explain runway orientation at LNA & traffic pattern entry procedures. _____
    _____
49. Describe possible traffic conflicts at LNA & proper avoidance procedures. _____
    _____
50. Describe the hot start procedures. _____
    _____
51. Describe the flooded start procedures. _____
    _____

SUBMIT