



AVIATION

RENTER PILOT EXAM

This form is to be used as an aid in reviewing FAR part 91, fundamental specifications, mechanical systems, and procedures of the aircraft that is being flown. All questions may not be applicable to all aircraft. Utilize all available aircraft documents to aid in this review, i.e., Owner's Manual, Operator's Manual, placards, markings or listings. After completion of the review, this form should remain the property of the pilot for his reference.

PILOT _____ Date _____

Aircraft Make and Model

1. What is the total fuel capacity? _____ How many tanks are there? _____ What is the capacity of each tank? _____
 2. What is the total usable fuel capacity? _____ (gal.)
 3. What is the correct fuel grade? _____ Color? _____
 4. Where are the fuel drains located? _____
 5. When are they drained? _____
 6. What is the recommended grade of oil? _____
 7. What is the minimum operating oil level? _____
 8. What is the aircraft empty weight? _____
 9. What is the useful load? _____
 10. What is the maximum aircraft takeoff gross weight? _____
 11. What is the maximum aircraft landing weight? _____
 12. What is the center of gravity range? _____
(Use maximum gross weight and work sample weight and balance.)
 13. What is the recommended short field approach air speed and configuration? _____
 14. What is the recommended normal approach airspeed? _____
 15. What is the best rate of climb speed (V_y)? _____
 16. What is the best angle of climb speed (V_x)? _____
 17. What is the maneuvering speed (V_a)? _____
 18. What is the maximum speed for landing gear extension? _____
 19. What is the stall airspeed in landing configuration (VSO)? _____
 20. What is the stall airspeed in landing configuration with a 60° bank? _____
 21. What is the maximum crosswind component for your aircraft (20% VSO)? _____
 22. What is the purpose of flaps? _____
 23. What is the minimum control speed with the "critical engine" inoperative (V_{mc}) (Multi Engine only)? _____
 24. What are the unsafe gear indications? _____
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25. What is the procedure for emergency gear extension? _____

26. How do you detect carburetor ice? _____
 In the event of carburetor ice, what do you do? _____

27. What is the power setting, fuel consumption and true airspeed for the following:
 a. 65% power, 7,500 feet, standard temperature.
 Manifold Pressure: _____ RPM: _____
 Fuel Consumption: _____ TAS: _____
28. What would be an indication of alternator or generator malfunction on your aircraft? _____
29. Where is the alternate static source on your aircraft located? _____
 What changes in pitot-static instruments would you expect if you were using "alternate static source"?

30. Describe the "Go Around" procedure: _____

31. What is the minimum runway length for takeoff in your aircraft? _____
 Max. gross weight, no wind, sea level, standard temperature? _____
 Max. gross weight, no wind, 5,000 ft., 100° temperature, 50 ft. obstacle? _____
32. When are your passengers required to have their seatbelts fastened? _____
33. What aircraft documents must be onboard during flight? _____

34. What are the basic VFR weather minimums for flight in class C & D Airspace? Ceiling _____
 Visibility _____
35. What unique aircraft equipment is required for entry into Class D Airspace? _____

36. VFR cruising altitudes are required above what minimum altitude?
37. What inspections are required on your aircraft? _____

Reviewed by: _____

Instructor