

CESSNA 172RG CHECKOUT EXAM

Pilot Name: _____

Date: _____

1. What is the engine Manufacturer?

Model: _____

Type: _____

2. What is the horsepower rating? _____

3. What is the total fuel capacity with normal tanks? _____

Bottom of fuel filler collar? _____

4. What is the approved fuel grade(s)? _____ Fuel Color(s)? _____

5. Where are the fuel drains located? _____

6. When should the fuel tanks be drained? _____

7. How should the fuel selector valve be positioned when refueling? _____

Why? _____

8. When is the auxiliary fuel pump used? _____

9. How should the fuel selector valve be positioned for takeoff and landing? _____

Why? _____

10. What is the maximum cruise performance fuel burn in gallons per hour? _____

11. What is the total oil capacity? _____

12. What is the prescribed oil quantity for normal flights? _____

13. What is the proper grade of oil for OAT (outside air temperature):

Between 30° F and 90° F? For above 60° F? _____

14. What is the standard empty weight for our Cessna 172RG? _____

15. What is the maximum takeoff weight? _____

16. What is the useful load? _____

17. Payload with full fuel? _____

18 What is the total combined weight capacity in the baggage compartment? _____

19. How much fuel can you carry with a front seat payload of 340 lbs., rear seat payload of 300 lbs., and 80 lbs. of baggage? _____

20. What is the maximum crosswind velocity? _____

Questions 22-25 Refer to the airspeed indicator and/or tachometer.

21. What is the meaning of the green arc? _____

22. What is the range of the green arc? _____

23. What is the maximum engine speed in RPM? _____

24. How are the maximum engine and air speeds indicated? _____

25. What are the following recommended airspeeds in KIAS (or MPH)

- Flaps Airspeed _____
- Normal takeoff/ climb: Up _____
- Normal landing: Up _____
- Normal landing: Down _____
- En route climb, sea level: Up _____
- Short-field takeoff/ climb: Up _____
- Normal Approach to Land: Up _____
- Short-field landing: Down _____
- Best rate-of-climb (V_y) at sea level: _____
- Best angle-of-climb (V_x) at sea level: _____
- Maximum flap extension 10° (V_{fe10°): _____
- Maximum flap extension full (V_{fe}): _____
- Stall speed, clean (V_s): _____
- Stall speed, full flaps (V_{so}): _____
- Maximum landing gear operating speed (V_{lo}): _____
- Best glide speed: _____
- Best glide speed flap setting: _____
- Maneuvering speed, gross weight (V_a): _____
- Never exceed speed (V_{ne}): _____

26. What speed should be maintained when penetrating turbulent air and why? _____

27. What is maneuvering speed (V_a) at 1,850 lbs.? _____

28. As gross weight increases, what happens to maneuvering speed? _____

29. How many flap settings are there, and how are they operated? _____

30. What is the flap setting and airspeed for a Soft field takeoff? _____
Short field landing? _____

31. When will the stall horn sound? _____
When will the gear horn sound? _____

32. How do you detect carburetor ice? _____
How do you clear carburetor ice? _____

33. How do you detect an alternator malfunction? _____

34. How do you restore electrical power with an alternator malfunction? _____

35. What do you do if you cannot restore the alternator? _____

36. Where is the alternative static source located? _____

37. What is the procedure for a balked landing (go around)? _____

45. What is the procedure for engine failure immediately after takeoff? _____

38. Why is it important to lock the engine primer after use? _____

39. What aircraft documents must be on board the aircraft during flight? _____

40. What is the range in zero wind, 65% power at 4,000 ft., standard temperature, 44 gallons usable fuel, and 45 minutes reserve fuel? _____

41. What is the hourly fuel consumption (lean mixture) at 4,000 ft pressure altitude, standard temperature, and 75% power? _____

42. What is the power setting, fuel consumption, and TAS (true airspeed) with maximum gross weight at 8,000 ft, 75% power and standard temperature? _____

43. Figure the takeoff distance for a short-field takeoff at maximum weight, a pressure altitude of 3,000 ft., and a temperature of 20° C. _____

44. Work the weight and balance configuration for full fuel, weight of pilot and front passenger of 300 lbs., rear passenger weighing 150 lbs., and baggage of 100 lbs. _____

45. When are cowl flaps used? _____

46. How do you interpret the cockpit gear position indicator? _____

47. What is the proper leaning technique? _____

48. What are the steps for manual gear extension? _____

49. What will be the effect of loss of oil pressure on propeller pitch and RPM? _____

50. What is the voltage of the electrical system? _____

51. What is the effect (danger) of loading an airplane aft of C.G. limits? _____
