1. How do you shut the doors? _____ (release the metal catch at the bottom of the door then shut like you would a car door.)
2. How many and where are the fuel sumps located? _____(One under each wing and one under the center of the nose)
3. What is special about the center fuel sump? _____ (It can get stuck open and must be checked to ensure it is not leaking)
4. What is the horsepower of the engine? _____(200 HP)
5. What is the Serial number? _____ (MC-755)
6. This aircraft has a _____ (28) Volt system.
7. What is the Maximum Continuous Power at Full Throttle? _____ (2700 RPM)
8. The minimum Grade of Avgas is _____ (100LL) which is _____ (blue/green) in color.
9. What is the fuel capacity of each tank? Full: _____(29.9 Gallons) at Slot _____ (20 Gallons) at bottom of Tab _____ (15 Gallons) (7-24)
10. What is the Total Usable Fuel? Full: _____(57.2 Gallons)
11. The Maximum Oil Capacity is ___ (8) quarts; the minimum is ____ (6) quarts.
12. What is the normal oil level? _____ (slightly above 6 quarts on the dipstick.)
13. Should you add oil if at or just slightly below 6 quarts? _____ (Yes especially if you are going on a long cross-country trip)
14. The Maximum Ramp Weight is _____ (2758 lbs).
15. The Maximum Take-off Weight is _____ (2750 lbs)
16. Maximum weight in the Baggage Compartment is _____ (270 lbs)
17. What are the following airspeeds?
    a. Never Exceed V_{NE}: _____ (168 kts)
    b. Max Structural Cruise V_{NO}: _____ (143 kts)
    c. Maneuvering V_A: _____ (125 kts)
    d. Max Flap Extend V_{FE}: _____ (96 kts)
    e. Max Landing Gear Operation V_{LO}: _____ (135 kts)

f. Max Landing Gear extended speed V_{LE}: _____ (135 kts)

g. Max Landing Gear Retraction: _____ (113 kts)

h. Best Angle-of-Climb V_X: _____ (71 kts)

i. Best Rate-of-Climb V_Y: _____ (85 kts)

j. Stall Speed V_S: _____ (65 kts)

k. Stall Speed when in landing configuration V_{SO}: _____ (60 kts)

l. Best glide speed: _____ (91 kts)

18. What is the configuration for best glide?

    a. _____ (Gear up landing gear safety switch OFF)

    b. _____(Flaps up)

    c. _____ (Propeller Full AFT position)

    d. Airspeed _____ (91 kts)

19. Use _____ (15) degrees of Flaps for Take-off.

20. Fuel management – do not take off if either fuel indicator indicates in the _____ (yellow) band.

21. The maximum entry speed for steep turns is _____ (125 kts)

22. The first notch of flaps is ___ (15) degrees, second ___ (25) degrees, and third ____(35) degrees.

23. To operate the Emergency Landing Gear Extension you must:

    a. _____ (Pull Landing Gear Motor Circuit Breaker – OFF)

    b. _____ (Gear Position Switch Down)

    c. _____ (Throttle maximum 12 inches)

    d. _____ (Have an indicated Airspeed of 87 kts)

    e. _____ (open hatch door at pilots feet and turn Emergency Extension Valve to Open – Turn Counter Clockwise)

24. What are the procedures for Engine Failure after takeoff and in flight?

    a. _____ (Mixture Full Rich)

    b. _____ (Fuel Boost Pump – On)

c. _____ (Fuel Selector Valve – Select other tank - feel for detent and check visually)

d. _____ (Magnetos – Check left and right then both)

e. _____ (Attempt restart)

25. What are indications that the alternator has failed?

    a. _____ (Alternator malfunction will be indicated by a fluctuation of the ammeter needle, or by a discharge indication.)

26. If the alternator fails how you do attempt to bring it back online?

    a. _____ (1. Alt switch – Off momentarily, then on this resets overvoltage relay)

27. What is the procedure if unable to bring the alternator back online?

    a. _____ (if alternator out condition persists then 2. Alt switch off, 3. Nonessential electrical equipment – off to conserve battery power)

28. Describe the spin recovery procedure.

    a. _____ (Immediately move the control column full forward and simultaneously apply full rudder opposite to the direction of the spin; continue to hold this control position until rotation stops and then neutralize all controls and execute a smooth pullout. Ailerons should be neutral and throttle in idle position at all times during recovery.)

29. The Maximum Demonstrated Crosswind Component is _____ (17 kts)

30. The Maximum Turbulent Air Penetration Speed is _____ (125 kts)

31. The Take-off/Rotation speed is ____ (66 kts)

32. Describe the procedures to a cold engine start.

    a. _____ (mixture full rich)

    b. _____ (Throttle – Fast Idle position)

    c. _____ (Fuel Boost Pump On max of 3 seconds then off)

    d. _____ (Magneto/start switch start crank no more than 30 seconds with 2 minutes between cracking periods)

33. Describe the procedures for a flooded engine start.

    a. _____ (Mixture Idle Cut Off)

b. _____ (Throttle Full open)

c. _____ (Magneto/Start Switch engage

d. _____ (Mixture Advance mixture slowly as engine starts firing regularly)

e. _____ (Throttle Retard to fast idle position)

34. True/False – The fuel boost pump should be used only for starting the engine and in the event of an emergency. It should not be used to take off or land. (True)

35. True/False – For normal takeoff a rolling start/takeoff is NOT recommended. The power and mixture should be set before release of the brakes. (True 4-10)

36. True/False – For cold weather operations always pull the propeller through by hand, opposite the direction of rotation, several times to clear the engine and "limber up" the cold, heavy oil before using the starter. (True 4-14)

37. True/False – Flight into known Icing is permitted. (False 4-15)

38. True/False – When extending the flaps one should depress the thumb button. (False 7-11)

39. What is the minimum wing-tip turning radius, using full steering, one brake and partial power while on the ground?

    a. _____ (26 feet 10 inches 7-11)

40. What is indicated when a red light illuminates on the landing gear position indicator light?

    a. _____ (The red light illuminates any time one or all of the landing gear s are in transit or in any intermediate position.7-13)

41. How do you set the intensity of the landing gear position indicator lights?

    a. _____ (The intensity of the lamps can be controlled by turning the lens on each lamp 7-13)

42. How can you tell if you have had an improper response of the landing gear?

    a. _____ (If the landing gear in-transit light remains illuminated 7-13)

43. How can one reset the landing gear time delay relay?

    a. _____ (The time delay relay can be reset by moving the landing gear switch handle to the down position 7-13)

44. How do you set the parking brake?

a. _____ (To set the parking brakes, pull the control out and pump both toe pedals until solid resistance is felt. 7-15)

45. True/False – When closing the last door to the airplane opening the storm window will alleviate pressure inside the cabin and assist with closing the door. (True 7-18)

46. The recommend tire pressure is ____ (32 psi) main gear and ____ (35 psi) for the nose gear. (8-15)

47.