<u>Note</u>: This aircraft **does not** possess an automatic-gear extension system, hence no "OVERRIDE" is available or required for use during the procedures outlined throughout the POH where such is mentioned.

- 1. Describe the general systems of the aircraft:
 - a. Engine Mfr, Type, Desig _____
 - b. Fuel Capacity?_____Usable (per tank)?_____, Tabs (per tank)?_____
 - i. Position & location of fuel drains to sump______
 - ii. Type of fuel permitted?_____
 - iii. Fuel flow indicator? ______
 - c. Oil: (All Wx) ______Min operational qty?_____ Sump Capacity? _____

- d. Propeller Type _____
- e. Electrical System: Battery _____v, System____v
- f. Flap Settings: _____
- 2. What is the ramp weight for this aircraft? _____ lbs. Takeoff Weight? _____lbs

- Current basic empty weight for this aircraft? _____ lbs., _____ inches
 What is the Useful Load of this aircraft? _____ lbs
- 5. How much payload can be carried assuming full fuel on board? lbs.
- 6. What is the max permitted weight in Main Cargo area? _____ Nose compartment?_____
- 7. Note the following v-speeds:

v-SPEED	KIAS	v-SPEED	KIAS	KIAS
VNE		VX (CLEAN / GEAR DN + FLAPS)		
VGLIDE		VY (CLEAN / GEAR DN + FLAPS)		
VNO		VR		
Vso		VLO (R)		
VA		VLO (E)		
VFE		VLE		
VCRUISE CLIMB				

- 8. What is the emergency/manual gear extension speed?
- 9. What is the max demonstrated cross-wind for this aircraft? _____ kts
- 10. Can the aircraft be flown with cabin/rear cargo doors removed? _____ IF so, under what condition(s)? _____
- 11. The maximum full-power take-off duration is ______ minutes
- 12. Can you fly with the front door removed?_____ IF so, when?_____
- 13. What is the probable cause of a propeller overspeed condition?
- 14. What is the remedy for a "Propeller Overspeed" condition?_____
- 15. What is the recovery procedure if the cabin door opens in flight?

16. Upon an "Alternator Failure" condition, the pilot should: a. _____ b. _____ C. _____ d. _____ 17. When should the electric fuel pump be used? 18. If a tank has been run dry, what might you experience? 19. How long could it take for fuel flow to resume? _____ 20. What actions should be taken if "Loss of Fuel Flow/Pressure" occurs? a. _____ b. _____ с. 21. Starter cranking is limited to ______ seconds with _____ minute rest periods between cranking cycles. 22. During the "warm up period" the engine should be at a minimum of RPM and maximum of RPM. The "warm up period" should be no longer than minutes in warm weather, and minutes in cold weather 23. Is it permissible to fly this aircraft into forecasted icing conditions? 24. During cruise, what is the recommended maximum power settings? 25. What is the maximum demonstrated X-wind for this aircraft? 26. What type of stall warning indication does this aircraft have? 27. During a short- or soft-field takeoff, the flaps should be extended to the notch which is _____ degrees 28. The rotation speed for this aircraft is?_____ 29. If the Panel Light rheostat Switch is in the "ON" position how does that effect the Landing Gear Position Indicator Lights? 30. This aircraft is equipped with a back-up landing gear extender, that automatically extends the landing gear at certain flight conditions (True / False)? 31. Can the ELT be activated from the flight deck (Yes / No) 32. What is the power off stall speed with flaps 40°, maximum gross weight, gear down, and a 40° angle of bank? 33. What are the first five steps in the emergency procedure for an in-flight engine fire? a. ______b. _____c. _____d. _____ e.

26. The engine induction Alternate Air source in this aircraft is: (Auto/Manual/Both)?_____

27. What is the approximate short fie	eld takeoff distan	ce (over a 50' obstacle)	under the following	
conditions: Takeoff weight: Gross, Ob	ostacle: 50 ft., Fla	ps: 25°, Power: Full Thr	ottle, Temperature: +30°	С,
Pressure Altitude: 1,500 ft.?	ft.			

30. What is the approximate landing distance (over a 50' obstacle) under the following conditions: Landing weight: Gross, Flaps: 40°, Power: Off, Temperature: +40° C, Pressure Altitude: 1,000 ft.; Max Braking? ft.

31. What is the Best Glide Configuration for this aircraft at gross weight? Gear: , Flaps: , Airspeed:

32. When transitioning to a balked landing from a normal landing configuration, the flaps should initially be retracted to _____ notch or _____degrees.

33. When configuring the aircraft for landing, should carburetor heat be used? (Yes / No)

Why?

34. During the pre-takeoff engine run-up, the power should be set to RPM. As each magneto is individually selected, the maximum allowable drop is RPM. The difference between the left and right magneto RPM drop must not exceed ______ RPM. May the pilot initiate a takeoff if these values are slightly exceeded? (Yes/No) _____

35. What flap setting(s) should be used to test the stall warning system?

36. When should the landing gear be retracted after takeoff?

37. What are the indications that the landing gear has been fully retracted? and when extended?

38. Under what conditions would the landing gear warning system make an audible alert?

39. What is the manufacturer's recommendation about leaning the fuel mixture?

40. Which of the following methods holds the landing gear in the retracted position?

- [] a. Mechanical locks
- [] b. Electrical locks
- [] c. Hydraulic pressure

41. During NORMAL landing gear operations, the Emergency Gear Extension Lever should be in the position.

42. In the event of an electrical system failure, the landing gear may be extended using which of the following alternative methods?

[] a. Moving the landing gear handle to the down position, as it is not part of the aircraft electrical circuit

[] b. Pressurizing the hydraulic system using the Emergency gear extension hand pump lever

[] c. Holding the Emergency gear lever in the "down" position to release hydraulic pressure

43. What is the takeoff distance at Pressure Alt 2000ft, Gross Weight, OAT 30°C, Wind 0 kts _____ft

45. Using the above conditions, what is the required distance to clear a 50ft obstacle?_____ft

44. Tire pressure for the Nose tire is _____ psi; the Main tires is _____ psi.

45. Given the following aircraft loading criteria (lbs): Pilot. 220, Copilot 150,Rear Pax 115, Main Baggage 80, Rear Baggage 95, Fuel Full. Gross Weight is ______ lbs. The C.G. is ______ inches aft of datum. Is the aircraft loaded within allowable weight limits? ______ Is the aircraft loaded within allowable weight limits? ______ Is the aircraft loaded within allowable C.G. limits? ______ Is the aircraft loaded within allowable weight limits?

46. Given the loading scenario from the previous question, adding another rear pax weighing 110 will cause the:

- [] a. aircraft's rearward C.G. limit to be exceeded
- [] b. aircraft's forward C.G. limit to be exceeded.
- [] c. aircraft to be within weight and C.G. limits.

47. What are the preflight actions for the autopilot? _____

48. The Nexrad radar available on the G750 can be used to circumnavigate squall line thunderstorms with precise accuracy, and can thus be used for flight planning in adverse convective conditions (True/False)_____.

49. How might you determine the best combination(s) of RPM and manifold pressure settings to use in cruise flight?

50. What is the recommended procedure to drain the fuel tanks to check for contaminants prior to the first flight of the day?

For Instrument Checkouts:

I-1. If the GPS enters "Loss of Integrity" mode (LOI) what is the corrective action that you should take?

[] a. Continue to navigate by use of the moving map, as the aircraft position will be calculated through the GPS via "dead reckoning" methods.

[] b. Continue to navigate by use of the CDI, however moving map aircraft position is unreliable

[] c. Revert to an alternate means of navigation until GPS information signal is restored

I-2. During a GPS LPV approach, if GPS accuracy requirements are not met by the GPS receiver, and the unit annunciates a change from your 'LPV' approach to 'LNAV', what action must be taken?

[] a. Continue to fly the approach, however only to LNAV minimums

[] b. Abandon the approach immediately, the GPS unit may not be used to transmit GPS nor NAV frequency data

[] c. You may continue to fly the approach to the LPV minimums on the published approach

I-3. To fly the ILS05 approach into KCPK, the pilot must ensure that the GPS unit providing the ILS/NAV signal is set to ______mode.