

Arrow AIRCRAFT Test

Pilot: _____

Date: _____

Complete this open book questionnaire using the Flight Manual/POH/Checklist. If a question or part of a question is not applicable, write in NA. Your flight instructor will review and grade the questionnaire. Minimum passing score is 80% (No more than 6 wrong). The completed questionnaire will be filed in the pilot's personnel file (PF) by appropriate personnel once the date of this questionnaire has been entered into the FMFA Dispatch System.

1. This aircraft contains _ fuel drains/sumps and approved fuel grades and colors are _____/_____.
2. What are the symptoms of carburetor ice for this aircraft? _____
3. Total useable fuel under all flight conditions is __ gallons; __ gallons to tabs, if appropriate.
4. What are the conditions for the fuel selector ? ON / OFF / RIGHT / LEFT / BOTH (Circle Appropriate)
5. Endurance at 75% power at 6000 ft PA with a 1 hour reserve is ___ hours with Std Conds.
6. Oil capacity is ___/___ quarts (Min / Max) for flight.
7. Air pressure for tires is ___/___ lbs/in² (Mains / Nosewheel).
8. The POH Acceptable vacuum gauge readings are _____ in(Hg).
9. The maximum rated power of the engine is ____ HP.
10. The aircraft engine is (carbureted, fuel injected).
11. Magnetos are checked at ____ RPM. RPM drop should not exceed ____ RPM on either magneto or ____ RPM differential between magnetos.
12. Maximum Gross Takeoff Weight is _____ lbs.
13. Maximum baggage compartment weight is ___ lbs.
14. The ammeter does / doesn't indicate battery discharge. (Circle appropriate)
15. The battery for this aircraft is ___ volts.
16. Complete table for aircraft depicted below.

Item	Tail # = N780FM		
	Wgt (lbs)	Arm (in)	Moment (in-lbs)
Basic Empty Wgt			
Pilot and Front PAX	400		
Rear Seat PAX	0		
Fuel (Max Useable)			
Baggage	15		
Ldg Gear Retraction	0		819
Totals			

17. The aircraft table above indicates that it is IN / NOT IN weight & balance limits (Circle)
18. The stall warning horn in this aircraft will work without electrical power (YES / NO)
19. When jumpstarting this aircraft the master should be OFF when cranking the engine (YES/NO)
20. Flaps are hydraulic/electrical/manual (Circle) with flap settings of _____
21. Slips are not recommended in this aircraft in what configurations? _____
22. Give indicated airspeeds in Kts for:
 - a. Va _____ b. Vso ___ c. Vs1 ___ d. Max Appch Speed@40 deg flaps _____
 - e. Best Glide _____ f. V_{NE} _____ g. V_{NO} _____ h. V_{FE} _____
 - i. V_{LE} _____ j. Max Ldg Gear Retract Speed _____ k. V_Y gear up, flaps up _____
 - l. V_Y gear dn, flaps up _____ m. V_X gear up, flaps up _____ n. V_X gear dn, flaps up _____

23. Give the immediate action/memory items for:

a. Engine failure immediately after takeoff

b. Engine fire and engine fails to start

c. Engine fire in flight

d. Electrical fire in flight

24. Given: PA = 2000 ft; Temp = 30 deg C; RWY 27; Wind 320@12; RWY is paved, level, and dry

Find: Total takeoff distance to clear a 50' obstacle at max takeoff weight _____

25. Given: PA = 2000 ft, Temp = 30 deg C; Wind calm; RWY is paved, level, and dry

Find: Total landing distance to clear a 50' obstacle at max landing weight _____

26. Maximum demonstrated takeoff/landing crosswind component is _____ KTS/MPH (Circle)

27. Will the maximum demonstrated crosswind component for this aircraft be exceeded for the following:

Landing Tipton RWY 28; *AWOS radio reported* wind 310@22G30? _____

Corrected by: _____