FMFA Arrow Aircraft (N780FM) (eff 01/20/2024)

Pilot	Date Corrected by
– Complet instructo schedulii	e this open book test using the FAR/AIM/POH/FMFA documents, as appropriate. Assume you are operating an FMFA aircraft. Your flight r will grade the test. Minimum passing score is 80%. The completed test will be filed in the pilot's file and the date will be entered into the FMFA ng and dispatch system.
1.	This aircraft contains fuel drains/sumps and approved fuel grades and colors are
2.	What are the symptoms of induction ice for this aircraft and what actions should be taken?
3.	Total useable fuel under all flight conditions is gallons; gallons to tabs.
4.	What are the positions for the fuel selector?/ //
5.	Endurance at 75% power at 6000 ft PA with a 1-hour reserve ishours under standard conditions.
6.	Oil capacity is/ quarts (Min / Max) for flight.
7.	Air pressure for tires is psi (Mains / Nosewheel).
8.	Does this aircraft have a vacuum gauge? Why?
9.	The maximum rated power of the engine is HP.
10.	The aircraft engine is <u>carbureted, fuel injected</u> . (circle one)
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 islbs.
13.	Maximum baggage compartment weight islbs.
14.	The ammeter <u>does / does not</u> indicate battery discharge. (circle one)
15.	The battery for this aircraft isvolts.
16.	Complete a Weight & Balance Table for Arrow N780FM. Assume fuel 72 gal, pilot 200 lbs, copilot 200 lbs and baggage 15 lbs. Attach the table to this test. (You may use the W&B Excel spreadsheet on the FMFA website.)
17.	The aircraft table above indicates that it is <u>IN / NOT IN</u> weight & balance limits. (circle one)
18.	The stall warning horn in this aircraft will work without electrical power. (YES / NO) (circle one)
19.	When jumpstarting this aircraft, the master should be OFF / ON when cranking the engine. (circle one)
20.	Flaps are hydraulic/electrical/manual (circle one) with flap settings of,,, degrees.
21.	Slips are not allowed in this aircraft in what configuration(s)?
22.	Give indicated airspeeds in Kts for: a. Va <u>@2750 lbs, <u>@1865 lbs</u> b. Vso <u>@40</u> deg flaps c. Vs1 <u>d. Appch Speed@40 deg flaps ></u> e. Best Glide <u></u></u>

f. VNE ____ g. VNO ____ h. VFE ____ i. VLE ____ j. Max Landing Gear Retraction Speed _____ k. Vy gear up, flaps up ____

l. Vy gear dn, flaps up ____ m. Vx gear up, flaps up ____ n. Vx gear down, flaps up ____

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- 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 C, RWY 27, Wind 320@12, RWY is paved, level, and dry. The total takeoff distance to clear a 50' obstacle at max takeoff weight is ______ feet.
- 25. Given: PA = 2000 ft, Temp = 30 C; RWY 27, Wind calm; RWY is paved, level, and dry. The total landing distance to clear a 50' obstacle at max landing weight is ______ feet.
- 26. Maximum demonstrated takeoff/landing crosswind component is _____ KTS.
- 27. Will the maximum demonstrated crosswind component for this aircraft be exceeded for the following: Landing Tipton RWY 28; <u>AWOS radio reported</u> wind 310@22G30? <u>YES / NO</u> (circle one)