

PA-28-161 (Warrior II) AIRCRAFT Test FMFA, Inc. -- Ft Meade, MD (KFME)

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 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, INC. Dispatch System.

1. Total fuel capacity for the Warrior II (standard tanks) is ____ gallons with ____ of useable fuel.
 a. 50, 49 b. 52, 46 c. 42, 40 d. 50, 48 e. 50, 475
2. A fuel tank is located in each wing of the Warrior II. If a side is filled to the "tabs," there is approximately 18 gallons of fuel in the wing with 17 gallons of useable fuel.
 a. True b. False
3. What is the engine horsepower of FMFA, Incorporated's Warrior II?
 a. 150 b. 155 c. 160 d. 165
4. Endurance for the Warrior II at 75% power at 5000 ft PA with a 1 hour reserve is ____ hours with standard conditions, lean mixture, standard tanks (including allowance of 12 minutes for taxi, takeoff, and climb from SL).
 a. 4.0 b. 4.1 c. 3.8 d. 3.5 e. 3.7
5. What is the best glide speed for the Warrior II (KIAS)?
 a. 73 b. 77 c. 80 d. 85 e. 67
6. Select the positions for the fuel tank selector.
 a. Left, Right, Off b. Both, Left, Right c. On, Off d. Off, Right, Both, Left
7. Select the maximum flap extension speed (KIAS, Top of White Arc)
 a. 95 b. 90 c. 100 d. 103 e. 110
8. Select the maximum demonstrated crosswind component (KTS) for the Warrior II
 a. 15 b. 14 c. 17 d. 19 e. 18 d. 16
9. What is the method of detecting carburetor ice in the Warrior II?
 a. Decrease in airspeed b. Reduction in RPM c. Reduction in Manifold Pressure
10. Select the minimum and maximum oil level in quarts for the Warrior II.
 a. 5, 7 b. 3, 7 c. 4, 7 d. 2, 8 e. 4, 6
11. Maximum baggage compartment weight is _____.
 a. 120 b. 200 c. 180 d. 150 e. 90
12. The maximum gross takeoff weight (lbs) for the Warrior II is _____.
 a. 1950 b. 2200 c. 2325 d. 2400 e. 2350
13. What is the voltage of the Warrior II electrical system?
 a. 12/14 b. 24/26 c. 10/12 d. 16/18

Item	Warrior II		
	Wgt (lbs)	Arm (in)	Moment (in-lbs)
Basic Empty Wgt	1496.48	87.1	130343.41
Pilot and Front PAX	400.0	80.5	
Rear PAX	135.0	118.1	
Fuel (Max Useable)		95.0	
Baggage Area	20.0	142.8	
Totals			

14. Complete table for the Warrior II depicted above. The aircraft table above indicates that it is IN / NOT IN weight & balance limits (Circle)
15. The stall warning horn in the Warrior II will work without power.
 a. True b. False
16. Back seat passengers and baggage are allowable for utility operations. (True / False - Circle Correct)

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17. The Warrior II flaps are hydraulic/electrical/manual (Circle) with flap settings of 0, 10, 25, 40 degrees.
18. When are slips allowed in the Warrior II?
 - a. In any configuration
 - b. With 25° flaps or less
 - c. Only without flaps
19. For the Warrior II, Vx is ___ KIAS and Vy is ___ KIAS.
 - a. 54, 67
 - b. 63, 79
 - c. 79, 87
 - d. 90, 102
20. What is the maneuvering speed, Va (Kts) at maximum gross weight?
 - a. 111
 - b. 97
 - c. 109
 - d. 121
 - e. 101
21. Stalling speed is ___ KIAS with 40 deg flaps and is ___ KIAS with flaps up and power off.
 - a. 55, 65
 - b. 44, 50
 - c. 45, 55
 - d. 67, 57
22. The Warrior II ammeter displays in amperes the load placed on the alternator.
 - a. True
 - b. False
23. If low oil pressure is accompanied by normal oil temperature:
 - a. Continue and monitor gauges for remainder of flight
 - b. Land at nearest airport and inspect
 - c. Operate at reduced power setting
 - d. Ignore indication as faulty and continue to destination
24. Give the immediate action/memory items for the Warrior II:

a. Engine failure immediately after takeoff:

1.	4.
2.	5.
3.	6.

b. Engine fire and engine fails to start

1.	5.
2.	6.
3.	7.
4.	8.

c. Engine fire in flight

1.	4.
2.	5.
3.	6.

d. Electrical fire in flight

1.	3.
2.	4.

25. 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 _____

Corrected by: _____