

Cessna 172 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:
N781FM & N782FM _____ gallons;_N783FM _____ gallons.
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:
N781FM & N782FM _____ hours;_N783FM _____ hours.
6. Oil capacity is ____ / ____ quarts (Min / Max) for flight.
7. Air pressure for tires is (Mains psi/ Nosewheel psi) : N781FM _____ / _____ ; N782FM _____ / _____ ;
N783FM _____ / _____ .
8. The POH Acceptable vacuum gauge readings are _____ in(Hg).
9. The maximum rated power of the engine is: N781FM & N782FM _____ HP; N783FM _____ 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: N781FM & N782FM _____ lbs ; N783FM _____lbs
13. Maximum baggage compartment weights are: Area 1 ___ lbs; Area 2 ___ lbs; Max Combined ___ lbs.
14. The ammeter does / doesn't indicate battery discharge. (Circle appropriate)
15. The battery for this aircraft is _____ volts.
16. Complete following weight and balance tables:

N781FM				N783FM			
Item	Wgt (lbs)	Arm (inches)	Moment (in-lbs)	Item	Wgt (lbs)	Arm (inches)	Moment (in-lbs)
Basic Empty Wgt				Basic Empty Wgt			
Pilot	200			Pilot	200		
Co-pilot	200			Co-pilot	200		
Rear Seat Pax #1				Rear Seat Pax #1			
Rear Seat Pax #2				Rear Seat Pax #2			
Baggage Area #1	15			Baggage Area #1	15		
Baggage Area #2				Baggage Area #2			
Totals				Totals			

17. The aircraft tables above indicates that:
 - a. Both N781 & N783FM in wgt & bal
 - b. Both N781 & N783FM not in wgt & bal
 - c. N781FM in and N783FM out of wgt & bal
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)

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20. Maximum airspeed for flap extensions is _____ KIAS/MPH (Circle).

Flaps are hydraulic/electrical/manual (Circle) with flap settings of _____

21. Steep slips are not recommended in this aircraft in what configurations? _____

22. Give airspeeds in Kts for N781FM & N782FM:

a. V_a _____ b. V_{so} _____ c. V_{s1} _____

d. V_y _____ e. V_x _____ f. Best Glide _____

N783FM

a. V_a _____ b. V_{so} _____ c. V_{s1} _____

d. V_y _____ e. V_x _____ f. Best Glide _____

23. Give the immediate action/memory items for N781FM and N783FM:

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

N781FM & N782FM: _____ N783FM: _____

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: _____