

FMFA, Inc. C172 AIRCRAFT Test

Pilot: _____

Date: _____

Complete this open book test using the Flight Manual/POH/Checklist/FMFA website. If a question or part of a question is not applicable, write in NA. Your flight instructor will review, grade and go over the questionnaire with you. Minimum passing score is 80%. The completed questionnaire will be filed in the pilot's file by FMFA personnel and the date will be entered into the FMFA FSP System.

1. The C172P-160 with long range tanks has a total of _____ gallons of which _____ gallons are useable.
The C172P-180's with standard tanks have a total of _____ gallons of which _____ gallons are useable.
2. FMFA's C172P (N783FM) has a MGW of _____ lbs.
FMFA's C172P's (N781FM and N782FM) have a MGW of _____ lbs.
3. The engines for N781FM and N782FM develop _____ HP. The engine for N783FM develops _____ HP.
4. The best glide speed for the Cessna 172P is _____ KIAS at maximum gross weight.
This speed increases / decreases with weight (circle).
5. The positions for the fuel tank selector are _____.
6. The maximum flap extension speed ≤ 10 degrees is _____ KIAS and >10 degrees is _____ KIAS.
7. The maximum demonstrated crosswind component for the Cessna 172P is _____ KTS.
8. What is the best method of detecting carburetor ice in our Cessna 172P's? _____
9. As measured by dipstick for the C172P, the minimum and maximum oil levels are _____ and _____ qts.
10. What position should the fuel selector be in when fueling and parked at the tie-down? _____
11. The maximum baggage compartment weight in area 1 is _____ and area 2 is _____.
The maximum baggage compartment weight in areas 1 and 2 combined is _____.
12. The C172P battery voltage is _____ and electrical system voltage is _____.
13. Given: 75% power, 4000 ft pressure altitude, standard conditions, mixture lean. The fuel flow for the 160 HP C172P is approximately _____ GPH and for the 180 HP C172P is approximately _____ GPH.
14. The stall warning horn does / does not require electrical power to operate. (circle)
15. A C172P-160 takeoff can be made safely from RWY 18 using the following: Max Gross Wgt, 50 ft obstacle, RWY 18 is 2000 ft, OAT 95 F, PA is 2000 ft, wind is 350 at 5 Kts. a. True b. False (circle)
16. C172P flaps are hydraulic/electric/manual (circle) with settings of __ , __ , __ and __ degrees.
17. In the C172P steep forward slips should be avoided with flaps extended beyond _____ degrees.

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18. For the Cessna 172P-160 Vx is _____ KIAS with 0 degrees of flaps and _____ KIAS with 10 degrees of flaps.
For the Cessna 172P-180 Vx is _____ KIAS with 0 degrees of flaps and _____ KIAS with 10 degrees of flaps.
19. For the Cessna 172P (both 160 & 180 HP) Vy is _____ KIAS with 0 degrees of flaps.
20. Provide complete weight and balance calculations for N781FM, N782FM and N783FM. Use these data: maximum useable fuel, pilot 200 lbs, front passenger 200 lbs, rear passengers 170 lbs & 170 lbs, baggage area #1 20 lbs, baggage area #2 15 lbs. You may use the spreadsheets from the FMFA website and print out each as an addendum to this test.
21. N781FM as depicted in the spreadsheet is / is not within weight and balance limits. (circle)
N782FM as depicted in the spreadsheet is / is not within weight and balance limits. (circle)
N783FM as depicted in the spreadsheet is / is not within weight and balance limits. (circle)
22. In the standard ICAO flight plan form equipment blocks, the designators for aircraft equipment _____ and surveillance equipment _____ should be used for our C172P's.
23. If low oil pressure is accompanied by normal oil temperature: (circle)
 - a. Continue flight and monitor gauges
 - b. Land at nearest airport and inspect
 - c. Operate at reduced power setting
 - d. Ignore indication as faulty and continue flight.

24. Give the immediate action/memory items for the Cessna 172P:

a. Engine failure immediately after takeoff:

b. Engine fire and engine fails to start

c. Engine fire in flight

d. Electrical fire in flight

25. C172P maximum weight in utility category is _____ lbs.

Corrected by: _____