

**USAF Aero Club
Cessna 172 Aircraft Exam
Updated February 2017**

Instructions

Complete the following exam using the answer sheet provided. Do not assume information not specifically provided in the questions. You will need the Cessna 172 K, M, N, P, model Information Manuals. Questions 1 - 27 are open book. The closed book exams will be on a separate answer sheet.

I. General

1. C-172K and M models with standard fuel tanks can hold _____ gallons of fuel. Total **usable** fuel is _____ gallons. Long-range tanks for these models can hold _____ gallons with a total usable fuel of _____ gallons.

- A. 43, 40 and 52, 50
- B. 42, 38 and 52, 48
- C. 42, 38 and 54, 50
- D. 42, 40 and 52, 54

2. C-172N and P models with standard fuel tanks can hold _____ gallons of fuel. Total **usable** fuel is _____ gallons. Long-range tanks for these models can hold _____ gallons with a total usable fuel of _____ gallons.

- A. 42, 40 and 54, 50
- B. 43, 40 and 52, 48
- C. 43, 40 and 54, 50
- D. 42, 44 and 54, 52

3. The maximum certified takeoff and landing weight for the C-172K, M, and N models in the normal category is _____ lbs. In the utility category it is _____ lbs.

- A. 2400 / 2100
- B. 2400 / 2000
- C. 2300 / 2100
- D. 2300 / 2000

4. The maximum weight for the C-172N is _____ lbs.

- A. 2300
- B. 2400
- C. 1379
- D. 921

II. Limitations

5. The maximum flap extended speed (Vfe) for the C-172K and M is _____ and N is _____.

- A. 100 kts / 85 kts
- B. 100 mph / 85 kts
- C. 100 mph / 85 mph
- D. 105 mph / 90 kts

6. The maximum flap extended speed (Vfe) with flaps 10°-30° for the C-172P is ____ kts.
- A. 110
 - B. 85
 - C. 95
 - D. 100
7. Never Exceed Speed (Vne) in the C-172 N is _____ kts, in the C-172P is _____ kts.
- A. 128 / 158
 - B. 160 / 158
 - C. 160 / 127
 - D. 155 / 125
8. Maximum Structural Cruising Speed (Vno) in the C-172M is _____ mph, in the C-172P is _____ kts.
- A. 128 / 158
 - B. 145 / 127
 - C. 160 / 127
 - D. 155 / 125
9. The demonstrated crosswind limit in C-172 aircraft is ____ kts.
- A. 10
 - B. 15
 - C. 18
 - D. 20

III. Normal Procedures

10. After starting the engine, the oil gage should show pressure within _____ seconds in the summer and within _____ seconds in very cold weather.
- A. 30 / 45
 - B. 30 / 60
 - C. 30 / 30
 - D. 60 / 90
11. The mixture in the C-172M/N/P should be leaned prior to takeoff from fields above _____ feet elevation. The C-172K mixture should be leaned at fields above _____ feet elevation.
- A. 7500 / 6000
 - B. 6500 / 5500
 - C. 3000 / 5000
 - D. 2500 / 8500
12. In balked landing (go-around) climb, reduce the flap setting to _____ immediately after full power is applied.
- A. 0°
 - B. 20°
 - C. 30°
 - D. 10°

13. Flap settings greater than _____ are not approved for takeoff (except C-172 K).

- A. 10°
- B. 20°
- C. 30°
- D. 40°

14. The stall warning horn sounds _____ knots above the stall in all configurations (except C-172 K).

- A. 5 – 10
- B. 0 – 5
- C. 5 – 7
- D. 8

15. If you enter a spin, the following recovery should be used: throttle – idle, ailerons – neutral, apply and **hold** full rudder opposite to the direction of rotation. Just **after** the rudder reaches the stop, move the control wheel **briskly** forward far enough to brake the stall. **Hold** these control inputs until rotation stops. As rotation stops, neutralize rudder, and make a smooth recovery from the resulting dive.

- A. True
- B. False

16. The best glide speed in the C-172M, N, or P is _____ knots and for the C-172K is _____ mph.

- A. 70 / 82
- B. 65 / 80
- C. 60 / 69
- D. 60 / 75

IV. Performance

17. The true airspeed (TAS) in Colorado is always _____ than the indicated airspeed (IAS).

- A. lower
- B. higher
- C. no different

18. To climb from the academy airfield to 9,500 feet MSL in a C-172 P would take _____ minutes, with _____ gallons of fuel used, and distance of _____ NM traveled.

- A. 10 / 1.5 / 11
- B. 9.5 / 1.5 / 13
- C. 8.0 / 1.8 / 12
- D. 7.5 / 2.5 / 14

V. Airplane Systems

19. The engine in the C-172 has _____ spark plug(s) in each cylinder and _____ engine driven magneto(s).

- A. 1, 1
- B. 1, 2
- C. 2, 2
- D. 2, 1

20. Fuel flows by _____ from the two wing tanks to a four-position selector valve in the C-172K/M/N/P.
- A. gravity
 - B. an electric pump
 - C. a hydraulic pump
 - D. an aneroid mixture valve
21. The brakes of the C-172 are connected to a master cylinder attached to each of the pilot's rudder pedals.
- A. True
 - B. False
22. The C-172P models with standard fuel tanks can hold _____ U.S. gallons of fuel. Total unusable fuel is _____ U.S. gallons.
- A. 53 / 3
 - B. 43 / 3
 - C. 53 / 2
 - D. 43 / 2
23. There are _____ points from which to drain fuel during the C-172P preflight.
- A. 5
 - B. 8
 - C. 3
 - D. 15
24. The fuel shutoff valve is located _____ in the C-172P.
- A. on the floor between the pilots seats
 - B. above and to the right of the fuel selector control
 - C. below the primer
 - D. under the pilot's/left seat
25. What is the oil capacity of the C-172M model?
- A. 8
 - B. 10
 - C. 6
 - D. 7