

USAF Academy Flight Training Center

Cessna 172S Aircraft Exam
May 2023

Instructions

Complete the following exam using the answer sheet provided. Do not assume information not specifically provided in the questions. Questions are open book. The closed book exam (emergency procedures) will be on a separate answer sheet.

I. General

1. C-172S can hold ____ gallons of fuel. Total **usable** fuel is ____ gallons.
 - a. 43 and 52
 - b. 56 and 53
 - c. 48 and 56
 - d. 52 and 43

2. The maximum certified takeoff and landing weight for the C-172S in the normal category is ____ lbs. In the utility category, it is ____ lbs.
 - a. 2500 / 2000
 - b. 2500 / 2200
 - c. 2550 / 2000
 - d. 2550 / 2200

II. Limitations

3. The maximum flap extended speed (Vfe) for the C-172S is ____ IAS.
 - a. 120 / 90 kts
 - b. 110 / 85 kts
 - c. 85 kts
 - d. 110 / 90 mph

4. Never Exceed Speed (Vne) in the C-172S is ____ KIAS.
 - a. 158
 - b. 163
 - c. 175
 - d. 180

5. Maximum Structural Cruising Speed (Vno) in the C-172S is ____ KIAS.
 - a. 118
 - b. 120
 - c. 129
 - d. 163

6. The demonstrated crosswind limit in C-172S aircraft is ____ kts.
 - a. 10
 - b. 15
 - c. 18
 - d. 20

III. Normal Procedures

7. The mixture in the C-172S should be leaned prior to takeoff from fields above ____ feet elevation.
 - a. 7500
 - b. 6500
 - c. 3000
 - d. 2500

8. In balked landing (go-around) climb, reduce the flap setting to ____ immediately after full power is applied.
 - a. 0°
 - b. 10°
 - c. 20°
 - d. 30°

9. Flap settings greater than ____ are not approved for takeoff.
 - a. 10°
 - b. 20°
 - c. 30°
 - d. 40°

10. The stall warning horn sounds ____ kts above the stall in all configurations.
 - a. 0 - 5
 - b. 5 - 7
 - c. 5 - 10
 - d. 8 - 10

11. The best glide speed in the C-172S ____.
 - a. 60
 - b. 65
 - c. 68
 - d. 70

IV. Performance

12. The true airspeed (TAS) in Colorado is always ____ than the indicated airspeed (IAS).
 - a. Lower
 - b. Higher
 - c. No different

13. To climb from the academy airfield to 9,500 feet MSL in a C-172S would take ____ minutes, with ____ gallons of fuel used, and distance of ____ NM traveled. **Note:** *Don't add fuel for taxi.*
 - a. 7.5 / 1.3 / 10
 - b. 7.5 / 2.5 / 14
 - c. 8.0 / 1.8 / 12
 - d. 10 / 1.5 / 11

V. Airplane Systems

14. The engine in the C-172S is rated at ____ horsepower at ____ RPM.
 - a. 160, 2500
 - b. 160, 2700
 - c. 180, 2700
 - d. 180, 2800

15. There are ____ total fuel sump quick drain valves. Only ____ must be checked during the C-172S preflight if no contaminants are found.
 - a. 3, 3
 - b. 5, 3
 - c. 13, 11
 - d. 15, 13

16. The fuel shutoff valve is located ____ in the C-172S.
 - a. on the floor between the pilot's seats
 - b. above and to the right of the fuel selector control
 - c. below the primer
 - d. under the pilot's/left seat

17. What is the total oil capacity of the C-172S model?
 - a. 6
 - b. 7
 - c. 9
 - d. 10

18. A LOW FUEL annunciator warning will light when either tank drops below ____ gallons for more than 60 seconds.
 - a. 0
 - b. 2
 - c. 5
 - d. 10

19. Priming the engine is completed using:
 - a. Primer knob
 - b. Gravity
 - c. Auxiliary fuel pump
 - d. Priming is not required

20. How can autopilot be disengaged?
 - a. Press A/P disconnect on pilot side yoke
 - b. Press AP on KAP 140
 - c. Pull A/P circuit breaker
 - d. Turn Avionics Master Off
 - e. All of the above