

Texas Flying Club

Written checkout exam for Cessna 172A, N7385T

Version 2.1, 19 August 2024

Name _____

Instructor _____

Date _____

Note: You will need to use information specific to this airplane for some of the questions. If necessary, make and state reasonable assumptions to answer performance questions.

Preflight

1. What is the total usable fuel capacity? Describe how to determine the fuel quantity.
2. What is the oil type? What are the maximum and minimum oil quantities for flight?
3. Describe the process for checking the oil.
4. How many fuel drains are there and where are they located? How much should be drained?
5. What are two operational reasons for switching the fuel selector to either the R or L tank or OFF during refueling?
6. If you are checked out in N60HF, name two critically different systems between this C-172A and the C-172N.
7. During the preflight, you notice that both landing lights are burnt out. During which time periods is this lease-back aircraft legal to fly with an inoperative landing light? Does your answer change if only one light is burnt out?

8. You decide to travel to a grass strip. What concerns should you have?

Limitations

9. Is the airspeed indicator marked in knots or mph?
10. Give the following speeds:
- a. V_{ne} :
 - b. V_a :
 - c. V_x and V_y :
 - d. V_s and V_{so} :
 - e. V_{fe} :
 - f. Best glide speed:
 - g. Normal approach flaps up:
 - h. Normal approach flaps down:
11. What is the maximum crosswind component? (Not listed in POH)
12. When were the last 100-hour and annual inspections? How can you check these?
13. Is the plane currently legal for night VFR flight? IFR flight?

Procedures

14. Describe the procedure to start the Continental O-300 engine.

15. Immediately after starting the engine, you notice a funny noise. The engine power seems limited. What starter issue might be occurring? Why could this condition be especially detrimental to the engine's life?
16. When is carb heat used? Where is the carb heat control located? What are two significant disadvantages of leaving the carb heat ON?
17. You are starting the engine. Suddenly several bystanders shout that flames are coming out of your exhaust. What do you do?
18. Describe the electrical charging system on the aircraft.
19. Describe the aircraft's pitot static system.
20. When in cruising flight, your engine suddenly stops running. What do you do?
21. Your engine catches fire in flight. What do you do?
22. When practicing power on stalls, you inadvertently give full left ailerons to try to level the wings just as the plane stalls. Instead of the plane rolling level, the aircraft rapidly rolls and yaws to the right. What happened and how do you recover?

23. What is the procedure for a short field takeoff?

24. What is the procedure for a short field landing?

25. What is the procedure for a go around?

26. There is no listed procedure for a soft field landing in the POH? List your procedure.

Performance

27. You are taking off from Coulter on a standard day with a gross weight of 2200 lbs. What is the expected takeoff ground roll?

28. You land at an airport at a density altitude of 2500 feet. There are 50 foot tall trees at both thresholds and the runway length is 1500 feet long. The aircraft weight is 1900 pounds. The winds are slack. Can you land? Can you take off? Now what?

29. On another flight, you are using full fuel, with 300 lbs of front seat passengers and 100 lbs of back seat passengers. You estimate there are 123 lbs of tools and a full oxygen tank as baggage on the hat rack. In how many ways is this neither legal nor safe to fly? What steps could you do to make the aircraft legal and safe to fly?

30. How many gallons per hour do you use for fuel planning purposes?