

Cessna 182 Skylane Test Questions

The purpose of this open-book test is to familiarize the pilot with the Cessna 182 Skylane and its corresponding POH. The 1985 Cessna Model 182R Skylane was chosen as the test airplane; answers given pertain to that aircraft. Refer to the POH for your aircraft as you complete the test.

1. Total fuel capacity is _____ gallons. Total usable fuel is _____ gallons.
2. What is the recommended fuel grade?
3. How should the fuel selector be positioned to ensure the maximum fuel load?
4. What is the endurance with a 45-minute reserve at a cruise altitude of 10,000 feet at standard temperature? Include start-up, taxi, takeoff, and climb fuel.
With full tanks at 65% power: _____
With 65 gallons at 65% power: _____
5. Do not operate on less than _____ quarts of oil. Fill to _____ quarts for normal flights of less than 3 hours, and _____ quarts for extended flights.
6. What is the recommended oil type and viscosity?
7. What is the maximum takeoff weight? _____
What is the maximum landing weight? _____
8. How much payload will your airplane carry with maximum fuel? _____ lb
9. How much fuel can you carry with the following payload? _____
Front seats: 400 lb
Rear seats: 200 lb
Baggage: 150 lb
10. What is the CG range? _____
11. What is the distance required to clear a 50-foot obstacle during takeoff under the following conditions:
3,100 lb, sea level, 85 degrees F _____
3,100 lb, 7,000 feet, 80 degrees F _____
12. What are the rate of climb and airspeed at 3,100 lb, 8,000 feet, OAT 20 degrees C? _____
13. What are the fuel consumption and TAS at standard temperature for
2300 rpm, 65% power, at 7000 feet?
Fuel consumption _____ TAS _____
14. What is the maximum demonstrated crosswind velocity? _____ knots
(This number is noted only in newer POHs. It is not considered limiting.)
15. What is the maneuvering speed (V_a) at max gross weight? _____
16. What limitation applies to the fuel selector valve during takeoffs and landings? _____

17. What is the best glide speed at maximum gross weight? _____ KIAS
At 2,600 lb? _____ KIAS
18. What are the indications of a vacuum system failure?
19. Which instruments/systems would be affected by a complete vacuum failure?
20. List the number of fuel drains and locations.
21. How is carburetor ice detected?
22. What is the procedure to remove carb ice?
23. What are the indications that the alternator has failed?
How would you attempt to bring it back online?
What is the procedure if unable to restore the alternator?
24. Which instruments will be inoperative with a dead battery?
25. The speeds and flaps settings for takeoffs and landings are:
Normal takeoff _____ Flaps _____
Normal landing _____ Flaps _____
Short-field takeoff _____ Flaps _____
Short-field landing _____ Flaps _____
26. What is the emergency descent procedure?
27. List the following indicated airspeeds:
Rotation, V_r _____
Never exceed, V_{ne} _____
Maximum flaps extended, V_{fe} _____
Stall, clean configuration, V_s _____
Stall, full flaps, V_{so} _____
Normal operating, V_{no} _____
Best angle of climb, V_x _____
Best rate of climb, V_y _____
28. What is the normal full flaps approach speed? _____
29. What is the procedure for a go-around?
30. What is the procedure following an inflight engine failure?