

CP Aviation Student Pilot Pre-Solo Test

This exam is to be completed OPEN book and all answers should be per the regulations, POH, and textbooks. ALL ANSWERS MUST CITE THE SOURCE.

1. Define the following V-Speeds and give the speeds that pertain to the aircraft you will solo.

- V_{so}- _____

- V_{s1}- _____

- V_x- _____

- V_y- _____

- V_a- _____

- V_{fe}- _____

- V_{ne}- _____

- V_{no}- _____

- V_{glide}- _____

2. What is the minimum altitude over congested areas of cities, towns, or over an open air assembly of persons?

3. How should you scan for traffic?

4. What are runway incursions? How do you avoid them?

5. What causes an airplane to stall?
6. What are the indications of a stall? Explain the recovery technique for an approach to landing stall.
7. What causes a spin?
8. What is the spin recovery procedure for your aircraft?
9. What is the go-around procedure from an aborted landing?
10. What is the emergency procedure for an engine failure immediately after take-off?
11. How do you detect carburetor ice and in the event of carburetor icing, what do you do?
12. Why do we check the carburetor heat at run up?
13. What is the Common Traffic Advisory Frequency (CTAF) and pattern altitude for Santa Paula airport?
14. What are the fuel grade and color, total fuel capacity, and total useable fuel for your aircraft?
15. Can auto gas be used if aviation fuel is unavailable?

16. What documents are required to be in your possession while flying solo?
17. After initial solo, a student pilot may also solo in any aircraft of the same _____ as the aircraft he/she soloed.
18. Where are the radio comm. antennas located? ELT? VOR? Transponder?
19. What is wake turbulence? How do you avoid it?
20. What is wind shear? How do you avoid it?
21. What pre-flight action is required before any flight?
22. Who is directly responsible and is the final authority as to the operation of an aircraft?
23. What aircraft has the right-of-way over all other aircraft except those in distress
24. What is the general rule of collision avoidance?
25. What is the duration of the student pilot and medical certificate?

26. What is required for a student pilot to land at another airport within 25 N/M of his/her home field?
27. At run up you cycle the mags and on one mag you get no drop in RPMs, what could be the problem?
28. In an in-flight emergency requiring immediate action, the pilot in command may _____.
29. The weather, visibility, and cloud clearance minimums for a student pilot are _____.
30. When approaching an uncontrolled airport for landing, you should give your _____, _____, and intentions approximately _____ miles from the airport.
31. What is the normal arrival pattern at Santa Paula airport? Wind is 220° at 10 knots.
- Your current position is east of the airport.
 - Your current position in west of the airport

32. What is the purpose of flaps?

33. Describe a slip to landing. When would you use a slip?

34. What is the indication of an alternator excessive rate of charge?

Action to be taken:

35. What is the indication of an alternator insufficient rate of charge?

Action to be taken:

36. Approach airspeed with flaps: _____, without flaps: _____. Short field approach airspeed: _____.

37. Maximum crosswind component: _____ (demonstrated or 20% V_{SO})

38. Match the squawk codes:

Lost Communication	1200
Emergency	7500
Hi-Jack	7600
VFR	7700

39. What aircraft documents are required on board during flight?

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____

40. Basic VFR weather minimums for flight in Class D airspace:

Ceiling: _____ Visibility: _____