

PRE-SOLO WRITTEN EXAM

Aviation

Answer each question in the space provided. The instructor may pick and choose particular questions to shorten the length of the quiz.

1. Define and list the following speeds for your aircraft (POH):

V_s - _____

V_{so} - _____

V_x - _____

V_y - _____

V_a - _____

V_{fe} - _____

V_{no} - _____

V_{ne} - _____

2. What is the airplane's best glide speed? (POH) _____ When is it used? _____

3. List the procedures to respond to an in-flight engine failure (POH).

4. List the procedure to respond to an engine fire on the ground while starting (POH).

5. List the procedure for loss of communication radio when arriving at an airport with an operating control tower. (AIM 6-4-1, 4-3-13.; PHAK 14-23)

6. What is the maximum gross weight of the aircraft in the Normal category? (POH)

7. If a glider is converging with an airplane, which has the right of way? FAR 91.113)

8. What are the limit load factors in both the Normal and Utility categories with the flaps up and down? (POH)

9. What preflight action is required of a pilot prior to a flight? (FAR 91.103)_____

10. Define an aerobatic maneuver? (FAR 91.303, 307) _____

11. Generally describe the engine in your airplane. (POH) _____

12. List the definition of careless or reckless operation. (FAR 91.13)_____

13. What is the oil sump capacity in your airplane? (POH) _____ What is the minimum? _____.

14. What would happen to the fuel indicators if all electricity in the plane was lost? (POH)

15. What are the basic VFR weather minimums? (FAR 91-155; AIM 7-1-6; FAR 61.89)

What is the minimum visibility for a student pilot? _____

16. Why is it necessary to drain fuel out of the sumps after refueling and before the first flight of the day? (POH) _____

17. List and describe each of the light gun signals available from air traffic control. (AIM 4-3-13) _____

18. Will the engine still run if the master switch is turned off? (POH) _____
Why? _____

19. What are wing-tip vortices (wake turbulence)? (AIM 7-3-1; PHAK 14-26)

With which aircraft are they greatest? _____ Describe proper avoidance. _____

20. What endorsements are required for solo flight? (AC 61-65)

What four documents must you have in your possession to solo an aircraft as a student?

21. Draw an airport traffic pattern, labeling each leg and the proper entry and departure points. What turn direction is standard for an airport traffic pattern? _____

22. List the traffic pattern altitude, direction of turns, noise abatement procedures, and all radio frequencies for the following local area airports and their runways. (Chart Supplement or online sources)

Fort Worth Spinks _____

Cleburne _____

Granbury _____

Bourland _____

23. What is the fuel capacity of your airplane? (POH) _____ How much is useable? _____

24. What is the authority and responsibility of the pilot in command? (FAR 1.1)

25. What grade(s) of aviation fuel is/are available for use? What color is each?

26. A(n) _____ on the runway indicates that the runway is closed. (AIM Section 2)

27. Draw the pavement marking requiring you to stop before entering a runway. (AIM Section 2)

28. What must a pilot do before entering Class D airspace? (FAR 91.129) _____

29. When must the aircraft's navigation lights be on? (FAR 91.209)

30. What is the minimum reserve fuel required for day VFR operations? (FAR 91.151)
Day _____ Night? _____

31. List some of the web sites that you normally use for getting airport information, weather, etc.