



Student Pre-Solo Written Exam

Name

Aircraft

Date

Instructor's Name and Signature

Initial Score

Date Corrected to 100

Performance

1. List and Define the following V-Speeds for the aircraft in KIAS

a. Va- _____

b. Vs- _____

c. Vso- _____

d. Vx- _____

e. Vy- _____

f. Vfe- _____

g. Vno- _____

h. Vne- _____

2. What is the airplanes best glide speed? When is it used?

3. Generally describe the powerplant of the airplane.

4. What is the maximum RPM for the engine?

5. Will the engine still run if the Master switch is turned off?

6. What is the min/max oil capacity for this airplane?

7. What is the total fuel capacity? What are the Usable and Unusable amounts?

8. What type of fuel does this airplane use and what color would you expect to see?
9. What is the maximum takeoff weight (MTOW) for the airplane?
10. Calculate the CG if you and a 185lbs instructor are in the front seats and a 175lbs passenger is the rear seat, with full fuel.

Procedures

1. What preflight action is required of a pilot prior to a flight?
2. Why is it necessary to sump the fuel before every flight?
3. List the procedure to respond to an engine fire on the ground while starting.
4. During the electronic ignition switch check, what is the maximum allowable drop in RPM?
5. State the procedure to respond to an in-flight engine failure.
6. What is the proper spin recovery procedure?
7. What are wing-tip vortices and how do you avoid them?
8. List the traffic pattern altitude, direction, noise abatement procedures and Com Freqs for weather, CTAF/Tower for each airport
 - a. Moraine I73-
 - b. Green County I19-
 - c. Dayton Wright Brothers MGY-
 - d. Warren County I68-
 - e. Urbana I74-
 - f. Dayton DAY-

Regulations

1. What is the authority and responsibility of the Pilot-in-Command?
2. What endorsements are required for solo flight? What 3 documents must you have in your possession to fly solo?
3. List the documents that must be onboard the airplane at all times.
4. Are you allowed to fly at night as a student pilot? When does "Night time" begin and end?
5. When are you required to wear a safety belt?
6. When is dropping objects from an airplane permitted?
7. What is the minimum safe altitude anywhere? Safe altitude over congested areas like a downtown area?
8. What is the minimum fuel reserve required for daytime VFR flights?
9. What is the definition of careless or reckless operation?
10. What is the minimum amount of time that must pass before you can fly after consuming alcohol?
11. If a glider is converging with an airplane, which has the right-of-way?
12. When two airplanes are converging head on, each pilot should deviate course in which direction?
13. Two aircraft are approaching the same runway at the same time, which one has the right-of-way?
14. What marking or symbol will a closed or unusable runway have on it?
15. Draw a standard airport traffic pattern, labeling each leg along with correct entry and departure points.

16. What must a pilot do and what equipment is required to enter the airspace? How is the airspace depicted on a sectional chart?

- a. Class D-
- b. Class C-
- c. Class B-

17. What are the basic daytime VFR weather minimums for the following airspace?

- a. Class G-
- b. Class E-
- c. Class D-
- d. Class C-
- e. Class B-