

Pre-Solo Written Knowledge Exam

Name: _____ **Date:** _____

Multiple Choice

1. Which combination of atmospheric conditions will reduce aircraft takeoff and climb performance?
 - a. Low temperature, low relative humidity, and low density altitude.
 - b. High temperature, low relative humidity, and low density altitude.
 - c. High temperature, high relative humidity, and high density altitude.
2. Which type of weather briefing should a pilot request when departing within the hour, if no preliminary weather information has been received?
 - a. An outlook briefing.
 - b. An abbreviated briefing.
 - c. A standard briefing.
3. What conditions are necessary for the formation of thunderstorms?
 - a. High humidity, lifting force, and unstable conditions.
 - b. High humidity, high temperature, and cumulus clouds.
 - c. Lifting force, moist air, and extensive cloud cover.
4. Who is responsible for making the “go/no go” decision for each flight?
 - a. Pilot-in-command.
 - b. Certified flight instructor.
 - c. Chief flight instructor.
5. What information is necessary in order to make a “go/no go” decision?
 - a. Permission from the chief flight instructor, chief mechanic, and weather briefer.
 - b. Acceptable weather conditions, an airworthy aircraft, and an airworthy pilot.
 - c. Permission from the weather briefer, an airworthy aircraft, and an airworthy pilot.
6. Two-way radio communication must be established with the Air Traffic Control facility having jurisdiction over the area prior to entering which class airspace?
 - a. Class C
 - b. Class E
 - c. Class G

7. Unless otherwise authorized, two-way radio communications with Air Traffic Control are required for landings and takeoffs?
 - a. At all tower controlled airports within Class D airspace only when weather conditions are less than VFR.
 - b. At all tower controlled airports regardless of weather conditions.
 - c. At all tower controlled airports only when weather conditions are less than VFR.
8. Which is the correct traffic pattern departure procedure to use at an uncontrolled airport?
 - a. Comply with any FAA traffic pattern established for the airport.
 - b. Depart in any direction consistent with safety after crossing the airport boundary.
 - c. Make all turns to the left.
9. In headwind conditions, the groundspeed will _____ the airspeed?
 - a. Exceed
 - b. Be less than
 - c. Be the same as
10. To maintain a desired track over the ground, apply?
 - a. A wind correction angle into the wind.
 - b. A wind correction angle out of the wind.
 - c. Power and a steeper bank angle.
11. The numbers 9 and 27 on a runway indicate that the runway is oriented approximately?
 - a. 009 and 027 degrees true
 - b. 090 and 270 degrees true
 - c. 090 and 270 degrees magnetic
12. In an in-flight emergency requiring emergency action, the pilot-in-command?
 - a. May deviate from any rule of FAR Part 91 to the extent required to meet that emergency.
 - b. Must not deviate from any rule of FAR Part 91.
 - c. May deviate from any rule of FAR Part 91 but only after receiving prior permission from ATC.
13. When approaching another aircraft head-on, each pilot must alter his/her course?
 - a. To the left
 - b. To the right
 - c. With a descent

14. Normal and crosswind takeoffs and landings should take place?
 - a. With the wind
 - b. Into the wind
 - c. Perpendicular to the wind
15. When you fly solo, you are pilot-in-command, and you are required to have in your personal possession a?
 - a. Pilot certificate and logbook
 - b. Pilot certificate, government issued photo-ID, and medical certificate
 - c. CFI solo endorsement, and copy of the FAR/AIM
16. A person may not act as a crewmember of a civil aircraft if alcoholic beverages have been consumed by that person within the preceding?
 - a. 8 hours
 - b. 12 hours
 - c. 24 hours

Open-Ended/Fill-In The Blanks

17. Fill in the V-speed definitions and the corresponding airspeed:

V-Speed	Definition	Airspeed
Vr		
VS1		
VS0		
VX		
VY		
VFE		
VA		
VNO		

VNE		
Best Glide		

18. What grade of fuel may be used in a C172? Max total and usable gallons?

19. Briefly outline the spin recovery procedure:

20. During the magneto check in the run-up checklist, what is the maximum allowable RPM drop and what is the maximum difference between the two magnetos?

21. What is the traffic pattern altitude at KOKK in the aircraft you are using?

22. What does CTAF stand for, and what is the CTAF frequency at KOKK?

23. When two aircraft are on final approach at the same time, which aircraft has right of way?

24. If two aircraft are converging, which aircraft has right of way?

25. What is the minimum fuel reserve for day VFR flight, and on what cruise speed is the fuel reserve based?

26. During engine run up, you cause rocks, debris, and propeller blast to be directed toward another aircraft or person. Could this be considered careless or reckless operation of an aircraft?

27. Describe the powerplant:

28. What aircraft certificates and documents must be on board during flight?

A -

R -

R -

O -

W -

Is there any exception to the above documents?

29. Describe what actions you would take if you experienced engine-failure in the following conditions:

After rotation with usable runway left:

50ft after rotation with no useable runway left:

Downwind in the traffic pattern:

In the practice area: