

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 the desired direction after reaching 500' AGL.
 - 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. Typically, an airplane should be taken off and landed?
 - 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?
- Pilot certificate and logbook.
 - Pilot certificate, government issued photo-ID, and medical certificate.
 - 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?
- 8 hours
 - 12 hours
 - 24 hours
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?

- a. 100LL
 - b. Jet A
 - c. 80
19. Max total and usable gallons?
- a. 65 gallons total, 60 usable
 - b. 43 gallons total, 40 usable
 - c. 26 gallons total, 24 usable
20. What is the correct spin recovery procedure?
- a. PARE: power idle, ailerons neutral, rudder opposite spin, elevator forward.
 - b. REAP: rudder neutral, elevator forward, ailerons opposite spin, power idle.
 - c. PARE: power idle, aileron opposite spin, rudder neutral, elevator forward.
21. 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?
- a. 200 max, +/- 100 difference
 - b. 400 max, +/- 200 difference
 - c. 125 max, +/- 50 difference
22. What is the traffic pattern altitude at KOKK in the aircraft you are using?
- a. 1,500'
 - b. 2,000'
 - c. 1,800'
23. What does CTAF stand for, and what is the CTAF frequency at KOKK?
- a. Common Traffic Area Frequency, 122.8
 - b. Common Traffic Advisory Frequency, 122.9
 - c. Common Traffic Advisory Frequency, 123.0
24. When two aircraft are on final approach at the same time, which aircraft has right of way?
- a. The lower aircraft
 - b. The higher aircraft
 - c. Whoever makes their radio call first
25. If two aircraft of the same category are converging, which aircraft has right of way?
- a. The aircraft to the others left.
 - b. The aircraft to the others right.
 - c. The smaller aircraft.
26. What is the minimum fuel reserve for day VFR flight, and on what cruise speed is the fuel reserve based?
- a. 30 minutes for FAA, 1 hour for FTC at normal cruising speed.
 - b. 1 hour for FAA, 1 hour for FTC at normal cruising speed.
 - c. 30 minutes for FAA, 45 minutes for FTC at normal cruising speed.

27. Why should you pay attention to your surroundings when positioning the aircraft for engine run up?
- a. To ensure the aircraft is positioned downwind.
 - b. You may cause rocks, debris, and propeller blast to be directed toward another aircraft or person.
 - c. To ensure nobody cuts in front of you to takeoff first.
28. Which of the following aircraft certificates and documents is NOT required to be on board during flight?
- a. Airworthiness certificate
 - b. Registration
 - c. Aircraft logbooks