

# ROCKY MOUNTAIN FLIGHT SCHOOL

## Pre-Solo Written Exam

1. If the outside air temperature (OAT) at a given altitude is warmer than standard, the density altitude is...?
    - A equal to pressure altitude.
    - B lower than pressure altitude.
    - C higher than pressure altitude.
  2. 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.
  3. If the temperature/dew point spread is small and decreasing, and the temperature is 62°F, what type of weather is most likely to develop?
    - A Freezing precipitation.
    - B Thunderstorms.
    - C Fog or low clouds.
  4. What conditions are necessary for the formation of thunderstorms?
    - A Sufficient water vapor, unstable air, and a lifting mechanism.
    - B High humidity, high temperature, and cumulus clouds.
    - C Lifting force, moist air, and extensive cloud cover.
  5. Which type of weather briefing should a pilot obtain, when departing within the hour, if no preliminary weather information has been acquired?
    - A An outlook briefing.
    - B An abbreviated briefing.
    - C A standard briefing.
  6. Who is responsible for making the go-no-go decision for each flight?
    - A The Pilot-in-Command.
    - B A Certified Flight Instructor.
    - C The Chief Flight Instructor.
- \*For question 7, the definition of official means to have a record of, or proof of the weather briefing that is recognized by the FAA.\**
7. To obtain “Official” preflight weather briefing information, pilots could use
    - A the current METAR & TAF.
    - B [www.1800wxbrief.com](http://www.1800wxbrief.com), or call 1-800-WXBRIEF.
    - C [www.aviationweather.gov](http://www.aviationweather.gov).
  8. What information is necessary to make go-no-go decision?
    - A Permission from chief flight instructor, your instructor, 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.
  9. Two-way radio communication must be established with the Air Traffic Control facility having jurisdiction over the airspace prior to entering which class airspace(s)?
    - A Class C & D.
    - B Class E.
    - C Class B, C, & D.
  10. An Air Traffic Control clearance is required prior to entering which class airspace(s)?
    - A Class B airspace.
    - B Class B, C, & D airspace.
    - C Class E airspace.

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11. An Air Traffic Control clearance is required for landings and takeoffs at
- A Class B airports.
  - B Class B, C, & D airports.
  - C Class E airports.
12. Which is the correct traffic pattern departure procedure to use at a non-controlled 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.
13. Although not regulatory, an airport's rotating beacon operated during daylight hours indicates
- A the weather at the airport is below three miles ground visibility and/or the ceiling is less than 1000.
  - B there are obstructions on the airport.
  - C that at least one runway is closed.
14. The official source of sunrise and sunset times is
- A the Aeronautical Information Manual.
  - B the American Air Almanac.
  - C the Federal Aviation Regulations.
15. You are calling 1-800-WXBRIEF for a flight briefing from KBJC. You plan to depart on your flight at 3:45PM MDT. The briefer asks for your departure time in Coordinated Universal Time. What should you tell them?
- A 0945Z
  - B 2145Z
  - C 2245Z
16. In headwind conditions, the groundspeed will \_\_\_\_\_ the airspeed.
- A exceed
  - B be less than
  - C be the same as
17. 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.
18. The numbers 9 and 27 on a runway indicate that the runway is oriented approximately
- A 009° and 027° true.
  - B 090° and 270° true.
  - C 090° and 270° magnetic.
19. If two-way radio communication fails at an airport with a control tower and cannot be restored, the recommended procedure is to
- A make an off-airport landing.
  - B turn on your landing light, enter the airport traffic pattern on final approach, and land as soon as possible.
  - C observe the traffic flow, enter the traffic pattern on the downwind, look for light signals from the tower, and squawk 7600 on your transponder.
20. 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.
21. 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.

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22. For your first solo flight maximum winds should be
- A below 10 knots.
  - B as PIC it is up to your discretion.
  - C at or below the winds stated in your solo endorsement.
23. When you fly as a student pilot solo, you are pilot-in-command, and you are required to have in your personal possession a (*circle two*)
- A student pilot certificate, medical certificate, and photo ID.
  - B current 90-day solo endorsement and a copy of the FAR/AIM.
  - C current 90-day solo endorsement and your logbook.
24. Student pilots are responsible for all relevant information, rules, and regulations in FAR Parts
- A 61 and 91.
  - B 91 and 121.
  - C 1 and 67.
25. 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 and/or with a blood alcohol concentration of 0.08 or greater.
  - B 8 hours and/or with a blood alcohol concentration of 0.04 or greater.
  - C 12 hours and/or with a blood alcohol concentration of 0.04 or greater.
26. When entering a waypoint into a GPS unit what is the difference between KBJC & BJC?
- A BJC is an airport and KBJC is a VOR
  - B KBJC is an airport and BJC is a VOR
  - C They're the same; KBJC is short for BJC
27. In Colorado and several other states recreational use of marihuana is legal. As a pilot what procedure should you follow?
- A Colorado law has set the THC blood level at 5 nanograms for operation of a vehicle, you should use that as your guide line.
  - B Federal law has not published any THC blood level limits, so you should set a cautionary level of marihuana use as your guide line.
  - C Aviation is governed by Federal law, you must comply with FAR §91.17.
28. As a Student Pilot how far away can you fly solo from the airport of departure without a cross-country endorsement?
- A 10 Nautical miles.
  - B 25 Nautical miles.
  - C 49 Nautical miles.
29. As a solo Student Pilot what airport(s) can you land at without a specific endorsement?
- A Any airport that you have landed at with your instructor.
  - B Your home airport (the airport where you receive your training).
  - C Any airport within 25 Nautical miles of your home airport.
30. May a student pilot fly to another airport to practice solo takeoff and landings?
- A Yes, with the proper endorsement.
  - B No

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31. Complete the following table below:

Airspeed	KIAS	Definition
V <sub>S</sub>		
V <sub>SO</sub>		
V <sub>NO</sub>		
V <sub>NE</sub>		
V <sub>FE</sub>		
V <sub>A</sub>		
V <sub>R</sub>		
V <sub>X</sub>		
V <sub>Y</sub>		
V <sub>G</sub>		
V <sub>REF</sub>		
V <sub>REF</sub> NO FLAPS		

## **Student Pilot**

*I have completed this Pre-Solo Written Exam to the best of my ability using all information available to me and have reviewed the corrected exam with my flight instructor, and I have completed an Aircraft Check-Out form for the make and model aircraft to be used for solo flight.*

\_\_\_\_\_  
*Student Pilot signature*

\_\_\_\_\_  
*Date*

\_\_\_\_\_  
*Print Student Pilot name*

## **Flight Instructor**

*I have personally reviewed and corrected this Pre-Solo Written Exam to 100% and verified that it accompanies a complete aircraft checkout for the make and model aircraft to be used for solo flight.*

\_\_\_\_\_  
*Instructor signature*

\_\_\_\_\_  
*Date*

\_\_\_\_\_  
*Print instructor name*