

Pre-Solo Written Exam

ROCKY MOUNTAIN FLIGHT SCHOOL

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. 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.
5. 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.
6. When telephoning a weather briefing facility for preflight weather information, pilots should state
 - A the full name and address of the pilot-in-command.
 - B the intended route, destination, and type of aircraft.
 - C the radio frequencies to be used.

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7. 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.
8. What information is necessary in order to make go-no-go decision?
- A Permission from 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.
9. 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 D.
 - B Class E.
 - C Class G.
10. 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.
11. 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.
12. An airport's rotating beacon operated during daylight hours indicates
- A the weather at the airport located in class D air space is below basic VFR weather minimums.
 - B there are obstructions on the airport.
 - C the Air Traffic Control tower is not in operation.

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13. The official source of sunrise and sunset times is

- A the Aeronautical Information Manual.
- B the American Air Almanac.
- C the Federal Aviation Regulations.

14. An aircraft departs an airport in the Eastern Daylight Time Zone at 0945 EDT for a 2-hour flight to an airport located in the Central Daylight Time Zone. The landing should be at what coordinated universal time?

- A 1345Z
- B 1445Z
- C 1545Z

15. In order to comply with Private Practical Test Standards, students must perform Turns Around a Point and S-Turns

- A at traffic pattern altitude, while maintaining altitude ± 100 feet, and airspeed ± 10 knots, while maintaining coordinated flight.
- B between 600 and 1,000 feet AGL, while maintaining altitude ± 100 feet, and airspeed ± 10 knots, while maintaining coordinated flight.
- C at traffic pattern altitude, while maintaining altitude ± 100 feet, and heading ± 10 degrees, while maintaining coordinated flight.

16. In order to comply with Private Practical Test Standards, the student must perform the Rectangular Course maneuver

- A between 600 and 1,000 feet AGL, while maintaining altitude ± 100 feet, and airspeed ± 10 knots, while maintaining coordinated flight.
- B between 600 and 1,500 feet AGL, entering 45° to the downwind, while maintaining coordinated flight.
- C at traffic pattern altitude, while maintain altitude ± 100 feet, and airspeed ± 10 knots, while maintaining coordinated flight.

17. In headwind conditions, the groundspeed will _____ the airspeed.

- A exceed
- B be less than
- C be the same as

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18. 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.

19. 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.

20. 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 area 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.

21. 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.

22. 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.

23. For your first solo flight maximum winds should be _____ or less.

- A 25 knots
- B 15 knots
- C 10 knots

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24. When you fly as a student pilot solo, you are pilot-in-command, and you are required to have in your personal possession a

- A** pilot certificate, logbook, and photo ID.
- B** pilot certificate and medical certificate.
- C** CFI solo endorsement, and copy of the FAR/AIM.

25. Student pilots are responsible for all information, rules, and regulations in FAR Parts

- A** 61 and 91.
- B** 91 and 121.
- C** 1 and 67.

26. 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.

27. As a Student Pilot how far away can you fly solo from the airport of departure without an endorsement?

_____ Nautical miles.

Explain: _____

28. As a solo Student Pilot what airport(s) can you land at without a specific endorsement?

Explain: _____

29. As a Student Pilot can you fly solo at night? _____

Explain: _____

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30. May a student pilot fly to another airport to practice solo takeoff and landings? _____

Explain: _____

31. How many endorsements are required prior to a Student Pilot's first solo flight? _____

Explain the location of each endorsement and how long they are valid: _____

32. Complete the table below:

Symbol or Task	Speed	Definition
V _{S1}		
V _{S0}		
V _A		
V _X		
V _Y		
V _{FE}		
V _{NO}		
V _{NE}		
Best Glide		
Maneuver entry		
Normal Landing		
Normal Takeoff		
Short-field Landing		
Short-field Takeoff		
Soft-field Landing		
Soft-field Takeoff		

Student Notes / Questions

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Student Pilot

I have completed this Per-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.

I have completed an Aircraft Check-Out form for the make and model aircraft to be used for solo flight. I have read, understand, and agree to comply with the POH or AFM and will operate the aircraft within the limitations established by the manufacture.

Student Pilot signature

Date

Print Student Pilot name

Flight Instructor

I have personally reviewed and corrected this Pre-Solo Written Test to 100% with the student, and find the above named Student Pilot's knowledge adequate to safely conduct solo flight.

I have personally reviewed and corrected the above named Student Pilot's Aircraft Check-Out form for the make and model aircraft to be used for solo flight.

Instructor signature

Date

Print instructor name