| Name: | | | Date: | | | |
|----------------------------------|---|---|---------------------------------------|---|--|--|
| Student Pilot Cert Nr: | | | | Score: | | |
| Airplane Make and Model: | | | | CFI: | | |
| This test must solo flight to sa | be completed tisfy the real Tests in Ac | ed and reviewed with the quirements of FAR 61.8 lvisory Circular 61-101 and | ne studen 187. This and will be | airplane to be used during the first solo. nt by the assigned CFI prior to the fir test complies with the guidance for e maintained in the RAFA files for a | | |
| | | <u>PART 1 - </u> | <u>Aircraft</u> | t Specific | | |
| • • | | perating speeds in knots d any associated airspeed | | cated air speed or MPH (M) indicated or markings: | | |
| Speed | K/M | <u>Definition</u> | | Marking on Airspeed Indicator | | |
| $ m V_{SO}$ | | | | | | |
| V _s | | | | | | |
| V _X | | | | | | |
| V _Y | | | | | | |
| V _{FE} | | | | | | |
| | | | | | | |
| Best-glide | | | | | | |
| speed | | | | | | |
| 2. The maximu | m allowable | gross weight for takeoff | of this a | irplane is lbs. | | |
| | | acity of your airplane is _e total usable fuel weight | | gallons. Aviation fuel weighs lbs lbs. | | |
| 4. The electrica | al system of | your airplane operates at | | volts and uses a volt battery. | | |
| 5. This aircraft | must be ref | ueled after each flight. | True | False | | |
| | | maximum allowable RPN nagnetos is I | | er magneto isand the | | |

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| of 6 | | | | | | |
|--|--------------------|---------------|---|---------------|--|--------------|
| center of gravity | for yourself wi | th full fuel. | (Refer to the | ne aircraft | e total weight, moment, a logs or weight and balanc ta for your airplane). | |
| You Fuel Baggage Airplane | Weight | X | <u>Arm</u> | = | Moment | |
| Totals: | | | | | | |
| 8. The three letter i | | dstone AA | | | | |
| _ | | - | | | eginning a flight, become concerning | that flight. |
| 10. Radio frequenci | es used when tr | raining at R | edstone are: | | | |
| Huntsville A Redstone to Anniston FS | wer: | | Huntsville : Rocket (RO Emergency | QZ) VOR | · · · · · · · · · · · · · · · · · · · | <u></u> |
| 11. The FAA requi | res that the follo | owing docu | aments be on | board the | aircraft: | |
| R: | | | S: | | | |

12. On the back of this sheet, indicate north and draw the Redstone AAF runway, showing Army and RAFA ramps, taxi routes for RAFA and Army ramp. Label runways and hold-short locations. Draw a traffic pattern (wind 020) and show downwind altitude, pattern legs, engine RPM, flap setting and target speed for each leg.

| | | GUMPS stand fo | | p. | S: | | |
|-------------|--|-------------------|---|--------------------------|--|--|--|
| 1.4 | | | | | | | |
| l 4. | What milling | um nuel reserves | are required for v | rk ilights? Day. | Night: | | |
| 15. | According to the AIM, how long will the FSS keep a VFR flight plan on file after the proposed time of departure? | | | | | | |
| 6. | Once you have opened your VFR flight plan, when will the FSS begin search procedures if you have not called for an extension or notified them to close your flight plan? | | | | | | |
| 17. | | | student pilot have ng solo cross-cou | | session or be immediately | | |
| 18. | | Which statement | - | | rdous when conducting taxi effections for taxiing with | | |
| | a. Turn c | ontrol yoke awa | ny from the wind a | nd use full down ele | evator. | | |
| | | ol yoke full aft, | | full days alayatar | | | |
| | | | vard, ailerons neut | full down elevator, ral. | • | | |
| 19. | and there are | | ft in the pattern. I | | the control tower is closed and frequencies from which you | | |
| | | Source | | <u>Frequency</u> | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 20. | | | | | the most likely cause? | | |
| | | | You | can usually clear th | us ud DV | | |

| 21. | What should you do if you have a fire due to a flooded carburetor while attempting to start the engine? |
|-----|--|
| 22. | Once you have established two-way radio contact with the Redstone tower from the ramp, what information should you provide next? |
| 23. | You are on the RAFA ramp and ready to taxi when the controller says, "Taxi to runway 17." |
| | a. What does this clearance permit you to do? |
| | b. What is your reply? |
| 24. | After you have completed your run-up on the RAFA taxiway, the controller clears you to taxi into position on runway 17 and hold. What does this clearance permit you to do? |
| | |
| 25. | You are holding on runway 17 ready for takeoff when you lose radio communication with the tower. What should you do? |
| | |
| 26. | You have departed runway 17 at Redstone AAF and have turned downwind when the controller instructs you to execute an immediate 360° turn to the right for spacing. What should you do? |
| 27. | You have reported that you are established on the base leg when the controller tells you to continue. Does this authorize you to land? Yes No Explain: |
| 28. | Why does a standard traffic pattern for fixed wing airplanes have turns to the left (left traffic) and why is it rectangular in shape? |
| | |
| 29. | You are on climbout (approximately 500 feet AGL) and the engine fails. What should your actions be? |
| | If an engine failure should occur on climbout at Redstone and you are below 1500 feet MSL, where should you try to land? |
| | |

PART 3 - True/False. Circle correct answer.

- 30. T F A drug-related offense or an alcohol-related traffic conviction may result in revocation of your student pilot certificate and preclude you from becoming a pilot for up to one year.
- 31. T F Prior to your first solo, you must have taken a presolo written test, been given specific instruction in the make and model aircraft you will solo, and receive an instructor endorsement on your student pilot certificate and in your logbook.
- 32. T F If the aircraft vacuum pump fails, the turn coordinator and attitude indicator fail.
- 33. T F If approaching another aircraft headon, you should alter your course to the right.
- 34. T F Your instructor is responsible for determining the airworthiness of the airplane you solo in.
- 35. T F Student pilots are prohibited from carrying passengers.
- 36. T F A student pilot must receive an endorsement from an authorized instructor prior to every solo cross-country flight.
- 37. T F When flying over a congested area, you must remain at least 1,000 feet above the highest obstacle.
- 38. T F In order to remain clear of all restricted airspace on Redstone Arsenal, you should remain north of Martin Road and east of Redstone AAF.
- 39. T F A spin cannot occur unless the aircraft first enters a stall.
- 40. T F When making your initial call to air traffic control, you should identify yourself as a student pilot.
- 41. T F Unless otherwise instructed by ATC, the transponder should be set to the ALT position and set to beacon code 0155 for VFR flight.
- 42. T F The student pilot certificate and the Class III medical certificate are valid for one year.
- 43. T F The official aircraft maintenance logbooks (airframe, engine, propeller) are required to be carried in the airplane at all times.
- 44. T F In order to log solo time, a student pilot must fly as the sole occupant of the airplane.
- 45. T F When returning to the RAFA parking ramp, you should taxi with the nose wheel on the yellow taxi line while observing the wing tips for obstruction clearance.

- 46. T F Student pilots must fly with an instructor each 30 days and must have a written logbook endorsement by the CFI each 90 days to remain current for solo flight.
- 47. T F In winter it's OK to begin a flight with a small amount of frost on the wings.
- 48. T F Student pilots must attend quarterly safety meetings in order to fly solo.
- 49. T F All aircraft are subject to buildup of static electricity in flight, so it is important to always ground the plane prior to refueling.
- 50. T F With the exception of Area Bravo, which is always hot to 2400 ft 24/7, overflying restricted areas is prohibited by RAFA pilots unless ATC has stated that the areas are not in use.

Restricted airspace at Redstone - Fill in the blanks

| <u>Number</u> | <u>Altitude</u> | <u>Time of use</u> |
|---------------|-----------------|--------------------|
| 2104 A | | |
| 2104 B | | |
| 2104 C | | |

Place an A, B, or C in the appropriate circles below

