

PRE-SOLO / CHECKOUT WRITTEN EXAM

Student/Renter Name:	_____	Date:	_____
Grade:	_____	Graded By:	_____
Aircraft:	Make: _____ Model: _____	Aircraft Tail Number:	_____

Exam Purpose

As specified in 14 CFR Part 61, you must demonstrate satisfactory knowledge of the appropriate portions of FAR Parts 61 and 91 to an authorized instructor. This demonstration must include the satisfactory completion of a written examination administered and graded by the instructor who endorses your student pilot certificate for solo flight.

In addition to questions regarding applicable regulations, the written exam must include questions about the flight characteristics and operational limitations for the make and model aircraft to be flown.

14 CFR 61.87(b), Pre-Solo Aeronautical Knowledge Exam, requires that you demonstrate adequate knowledge to operate safely during solo flight in your local training environment. If the surrounding area includes controlled airspace, such as Class B, C, D, or E airspace, you may be asked appropriate questions regarding operations in those areas.

GENERAL QUESTIONS

1. Define and list the following speeds for the selected aircraft:

Vs:	_____	Vso:	_____
Vx:	_____	Vy:	_____
Va:	_____	Vfe:	_____
Vno:	_____	Vne:	_____

2. What is the airplane's best glide speed, and when is it used?

3. List the emergency procedure for ENGINE FAILURE DURING FLIGHT:

4. List the emergency procedure for ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF:

5. List the procedure for a BALKED LANDING / GO-AROUND:

6. List the procedure for SPIN RECOVERY:

7. What is the maximum gross weight of the airplane in the Normal Category? _____

8. What is the total fuel capacity and usable fuel capacity? Total: _____ Usable: _____

9. Under 14 CFR 91.3, who is responsible for the operation of an aircraft? _____

10. Under 14 CFR 91.103, what preflight action is required for a Pilot-in-Command prior to a VFR flight not in the vicinity of an airport?

11. What is the maximum RPM of the engine? _____

12. How much horsepower does the engine produce? _____

13. What are the maximum and minimum oil capacities of the engine according to the POH, and what are the maximum and minimum oil capacities that TAG uses?

POH Maximum Oil Capacity: _____

POH Minimum Oil Capacity: _____

TAG Maximum Oil Capacity: _____

TAG Minimum Oil Capacity: _____

14. Define aerobatic maneuver: _____

15. What is 14 CFR 91.13 intended to prevent? _____

16. What is the minimum amount of time a pilot is required to wait after consuming alcohol before acting as a crewmember? _____

17. What would happen to the fuel indicators if all electrical power in the airplane was lost?

18. Why is it necessary to drain fuel from the sumps after each refueling and before the first flight of the day?

19. List and describe each of the light gun signals available from ATC:

20. Will the engine still run if the battery and alternator are turned off in flight? _____

21. With which aircraft are wingtip vortices / wake turbulence the greatest? Describe the proper avoidance procedures.

22. During a magneto check during the run-up, what is the maximum allowable RPM drop? What is the allowable difference between magnetos?

Maximum RPM Drop: _____ **Maximum Difference Between Magnetos:** _____

23. Draw an airport traffic pattern, labeling each leg and the proper entry and departure points.

24. Which turn direction is standard for an airport traffic pattern? _____

25. List the traffic pattern altitude, direction of turns, and CTAF radio frequencies for the following airports:

Airport	Traffic Pattern Altitude	Direction of Turns	CTAF Frequency
Claremore Regional Airport (KGCM)	_____	_____	_____
Pryor Field (H71)	_____	_____	_____

26. When are you permitted to deviate from an ATC instruction? _____

27. What grade(s) of aviation fuel are approved for use? What color is each? _____

28. When an aircraft is approaching another aircraft head-on, each pilot should alter their course to the:

29. An _____ on the runway indicates that the runway is closed.

30. Draw the pavement marking requiring you to stop before entering a runway.



31. What must you do prior to entering Class C and Class D airspace? _____

32. What is the minimum safe altitude anywhere? _____

33. What is the minimum safe altitude over congested areas? _____

34. What documents must be onboard the aircraft at all times? _____

35. What is the minimum reserve fuel for day VFR operations? _____

36. What are the VFR weather minimums for Class D airspace? _____

37. What are the VFR weather minimums for Class E airspace during daytime operations? _____

38. What are the VFR weather minimums for Class C airspace? _____

39. What are the VFR weather minimums for Class G airspace during daytime operations? _____

40. What position must the fuel selector valve be in for takeoff and landing? _____

41. When is carburetor heat used? _____
