## **AIRCRAFT WRITTEN**

(Updated March 20, 20	01)	a .				
Name Date Phone Aircraft Type				·		
SPEEDS	÷					
Vso Vsl	• Vr	Vx	Vy	-		
Best Glide						
Va (max wt.)	Vlo	(ret) Vlo	(ext)			
Vle Max cro	sswind component	Vmc	-			
Vsse		Vyse				
WEIGHTS						
Max Ramps		Max Takeoff				
Max Landing	g Useful Load					
AIECRAFT SYST	•					
1. What type of power oil-minimum, maximur						
2. Fuel systems: how n	nuch fuel do the tan	ks hold?				
Is the engine carbur	eted or fuel injected	1?				

Fuel Pumps: How many and what drives them?
What is the fuel consumption at Cruise and take off power?
What is the endurance at cruise?
3. <b>Propeller</b> : Is it fixed pitch or constant speed? If it is constant speed, what power and propeller settings do you use for take off, climb, (at 65%) cruise and descent?
4. <b>Electrical system</b> : What voltage battery does the airplane have and what size alternator? What is the total voltage on the electrical system? What equipment is affected by an alternator failure?
5. Landing gear system: What allows the gear to retract? What allows the gear to extand for your airplane?
6. <b>Emergency landing gear system:</b> How do you use the emergency landing gear system?
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## **EMERGENCIES**

1. Describe the procedures for the following emergencies:  A. Engine failure on takeoff sufficient runway available.
B. Engine failure on the takeoff insufficient runway available.
C. Engine failure en route.
D. Engine and electrical fires.
WEIGHTS AND BALANCES:
Aircraft has maximum fuel; pilot weighs 180 lbs., and passenger 220 lbs. Rear seat passengers weigh 190 lbs. each. Is the aircraft within limits?
4

## Aircraft Performance:

Pressure: 28.92 I	n Hg. Field eleva Can the aircraft <b>t</b> a	ation 1,500 lakeoff and la	m. Temperature: 90 c Ft. The aircraft is loa and over a 50 Ft. obst by length?	ded at maximum
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			a a	
Pilot signature: _			Date:	
Instructor:				