

Pre-Solo Written Exam

Stud	lent: Date:	Date:		
Gene	eral Operations			
1.	What endorsements are required to be in your logbook prior to solo flight?			
2.	What personal documents must be in your possession during solo flight?			
3.	What aircraft certificates and documents must be on board when you are flying solo?			
4.	How many passengers can you carry as a student pilot?			
5.	Who has the final authority and responsibility for the operation of the aircraft when yeare flying solo?	ΣL		
6.	What is the minimum fuel reserve for day VFR flight?			
7.	What are wing-tip vortices (wake turbulence)? In which aircraft configuration are the greatest? Describe the proper avoidance.	y		
8.	What is wind-shear? Why is it hazardous and where might you encounter it?			



9.	Discuss the right-of-way rules regarding overtaking another aircraft, approaching another aircraft head-on and another aircraft converging from the side.
10.	Who has the right-of-way when two aircraft are on final approach to land at the same time?
11.	Discuss the regulations regarding the consumption of alcohol and operating an aircraft.
12.	Is there ever an instance when you may deviate from a Federal Aviation Regulation (FAR)?
13.	Except when necessary for takeoffs and landings, what are the minimum safe altitudes when flying over congested and other-than-congested areas?
14.	During an ignition check, what is the maximum allowable RPM drop?
15.	When is a go-around appropriate?
16.	Describe the go-around procedure.
17.	What general steps should you follow an engine failure in flight?
18.	During flight, you begin to see a gradual decrease in power. What is a likely cause and what should be done to remedy the situation?



19.	What altitudes should you use when operating VFR in level cruising flight at more than 3000 feet AGL and what determines those altitudes?			
20). What is the emergency frequency?			
21.	. Draw an airport traffic pattern, labeling each leg and the proper entry and departure points. Which turn direction is standard for an airport traffic pattern?			
Aircr	aft Equipment / Limitations			
1.	1. List the minimum equipment that must be working properly in your aircraft for day VF flight.			
2.	Fill in the V-speed definitions and the corresponding speed for your training airplane.			
	Speed KIAS or MPH (Circle)			
	V _{SO} V _{NO}			
	V_X V_{NE}			
	V _Y V _A			
3.	What is the best glide speed for your training airplane?			
4.	What grade or grades of fuel can be safely used in your training airplane?			
5.	What are the minimum and maximum oil capacities for your training airplane?			



6.	Under what circumstances should you use carburetor heat?			
7.	7. If during flight you experience carburetor ice and full carburetor heat is applied; what changes in engine performance would you expect?			
8.	3. Under what circumstances could a spin occur in your aircraft?			
9.	9. Describe the spin recovery procedures for your training aircraft.			
Aircr	aft Performance			
Aircraft Manufacturer Aircraft Max		Aircraft Max Gross Weight		
Aircraft Model		Aircraft Empty Weight		
Aircra	aft N Number	Aircraft Useful Load		
Enter the current weight and balance information for your training aircraft and then calculate the weight and balance for the conditions given. Current Weight and Balance can be found in the aircraft.				
	tions: Full Fuel, 180 lb. Pilot, 180 s over maximum gross weight o	lb. Passenger, 10 lb. Baggage out of CG range, alter the load to correct the problem.		

FFC Pre-Solo Written Exam – March 2019

Airport Operations / Airspace



1.	What are the traffic patterns for each runway at your home airport? What is traffic pattern altitude at your home airport (ft. MSL)?
2.	How do you enter and exit the traffic pattern at your airport? What radio communications are required?
3.	Discuss airspace at and around Cameron Park Airport and around Rancho Murrieta Airport?
4.	Describe how you would approach and enter the traffic pattern at an uncontrolled airport.
5.	What radio calls are recommended as you approach, enter and fly the traffic pattern at an uncontrolled airport?
6.	What is CTAF? Explain the CTAF procedures at your home airport.
7.	How can you tell if a runway is closed?
8.	Draw the pavement marking requiring you to stop before entering a runway.
9.	What is a TFR? Where do you information on the presence and status of TFRs?
10.	Provide visibility and cloud clearance requirements for the following airspace: Class E
	Class G



Risk Management

Factors That Affect the Safety of Flight - PAVE					
P	_ A	V		E	
Pilot Personal Checkl	ist - IMSAFE				
I M _	S		Α	F	E
Who is responsible for determining that the aircraft is safe (and legal) for flight?					
Describe the aircraft	pre-flight proce	edure? What ite	ms are you che	cking for?	
Describe the information pertaining to the flight that the pilot is legally obligated to become familiar with?					
Describe your go/no-go decision process in detail. Note the tools and resources you use.					
Emergency Proce	dures				
Describe the steps yo	ou would take if	you have a rou	gh running engi	ne/partial power i	n flight.
Describe the steps you would take if you have an engine failure in flight.					
Describe the steps yo	ou would take if	you have an en	gine fire during	start up.	



Describe the steps you would take if you have an engine fire during flight.
Describe the steps you would take if you have an electrical fire during flight.
What do you do if the canopy (Evektor) or door (Cherokee) becomes unlatched during takeoff or during flight?
How will you know if you have an electrical failure during flight? What do you do?
Light Sport Specific Questions (Please complete if you are an Light Sport applicant.)
1. The maximum gross weight of an LSA is
2. The maximum number of passengers a sport can carry is
3. Can a Light Sport Aircraft have an inflight adjustable propeller?
4 Can a Light Sport Aircraft be flown at night?
5. What is the maximum altitude a light sport aircraft can be flown at by a Light Sport pilot?



Student / Instructor Review

Student Signature	Date		
Instructor Signature	Date		