

Pre-solo Written Exam - Cessna 172

Nan	e: Date:	Date:				
Airp	Airplane Make/Model:					
If yo	Answer the following questions in the space provided, using the FARs, AIM, AFD, and POH. If you reference one of these sources for an answer, be sure to note it for your future reference.					
1.	What type of engine does the Skyhawk have?					
2.	What is the engine horsepower?					
3.	How many gallons of useable fuel does the Skyhawk hold?					
4.	What type of oil should be used in this engine?					
5.	Please show the speed on the Skyhawk (in Knots) for each item below, and define in your					
	own words the significance of each speed and how it is used:					
	V _R					
	V _x					
	V _Y					
	Best Glide					
	V _{NE}					
	V _{NO}					
	V _A					
	$ m V_{FE}$					
	V _{S1}					
	V _{S0}					
6.	What are the maximum demonstrated crosswind components for the Skyhawk? Crosswind: Kts					
7.	What is the service ceiling of the Skyhawk?					
8.	What is the takeoff distance to clear a 50 foot obstacle on a standard day?					

What is the landing distance over a 50 foot obstacle on a standard day?
What is the maximum RPM setting?
Please describe the loss of engine procedures for the Skyhawk.
What is the maximum gross weight of the Skyhawk?
What is the empty weight of the Skyhawk?
What is the useful load of the Skyhawk?
With full fuel, how much weight can you carry in Skyhawk?
What preflight actions are required before a flight not in the vicinity of an airport? Before any flight?
List the minimum equipment and instruments that must be working properly in your aircraft for flight.
How many hours are required between consuming alcohol and flying? What is the maximum blood alcohol content to legally operate an aircraft?
What altitude should you fly when operating in level cruising flight to the East at more than 3 000 feet agl?

20.	How many fuel sumps does the Skyhawk have? Why is it necessary to drain fuel				
	from the fuel sumps?				
	When should this be done?				
21.	What type and grade of fuel is used the Skyhawk?				
22.	What is the acceptable range for oil quantity in the Skyhawk?				
23.	Will the engine run with the master switch turned off?				
24.	What is the maximum allowable flap setting for takeoff in the Skyhawk?				
25.	During a magneto check, what is the maximum RPM drop?				
	How much difference is acceptable between the left and right mags?				
26.	Draw a diagram of the runways at your airport. Label each runway.				
	L				

Which	turn direction is stan	ndard for a traffic pattern?	What is traff
		oort?	
How d	o you enter and exit t	the traffic pattern at an uncontrolled	d airport?
List the	e following frequenci	•	
List the	ATIS:		
List the	ATIS:		
List the	ATIS: Ground: Tower:		
List the	ATIS: Ground: Tower: Approach Control:		
List the	ATIS: Ground: Tower: Approach Control:		
	ATIS: Ground: Tower: Approach Control: Emergency:		
Descri	ATIS: Ground: Tower: Approach Control: Emergency: be, "Wake turbulence	e". In which type of aircraft and in w	which configuration is this
Descri	ATIS: Ground: Tower: Approach Control: Emergency: be, "Wake turbulence		which configuration is this

What must a pilot do before entering each of these airspace classes?
Class A:
Class B:
Class C:
Class D:
Class G:
What is the minimum fuel requirement for VFR day conditions?
If the altimeter setting is not available at an airport, what setting should you use before
departing on a local flight?
What must you do before performing flight maneuvers?
When practicing Steep Turns, Stalls, and Slow Flight, the entry altitude must allow a
recovery to be completed no lower than feet AGL.
When two aircraft of the same category are converging head-on, which way do you to avoid the other aircraft?
Give three situations that would necessitate a go-around.
a)
b)
c)

40.	What documents and endorsements are you required having in your possession to legally				
	operate the airplane as a student pilot?				
41.	What are limitations your instructor may place on your solo endorsements?				
42.	What are the limitations of a student pilot, as stated in Part 61.89 of the Federal Aviation Regulations?				
	uctor Statement: have reviewed this pre-solo written exam with the student and have determined that the				
	nswers, as corrected by the student, are complete and correct.				
Instru	actor Signature: Date:				
Stude	nt Signature: Date:				

SOLO FLIGHT CHECKLIST – per FAR 61.87 ☐ Demonstrate satisfactory knowledge on a Presolo written test, and review all incorrect answers with an instructor. ☐ Receive and Log training on: 1. Preflight panning and preparation, powerplant operation, and aircraft systems 2. Taxiing or surface ops, including runups 3. Takeoffs and landings, including normal and crosswind 4. Straight and level flights, and turns in both directions 5. Climbs and climbing turns 6. Airport traffic patterns, including entry and departure 7. Collision avoidance, windshear avoidance, and wake turbulence avoidance 8. Descents, with and without turns, using high ad low drag configurations 9. Flight at various airspeeds from cruise to slowflight 10. Stall entries from various flight attitudes and power combinations with recovery initiated at the first indication as well as recovery from a full stall 11. Emergency procedures and equipment malfunctions 12. Ground reference maneuvers 13. Approaches to a landing area with simulated engine malfunctions 14. Slips to a landing 15. Go-arounds Demonstrate satisfactory proficiency and safety in the make and model of aircraft to be flown.

Receive an endorsement in the student's logbook for the specific make and model

preceding the date of the flight.

aircraft to be flown by an authorized instructor who gave the training within the 90 days