REV	CHANGE	APPROVED	DATE
1.0	-	EB	8/1/22



Archer Presolo Written Test

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Nan	ne: Date:
Airp	olane Make/Model:
POH	wer the following questions in the space provided, using the FARs, AIM, Chart Supplement, and I. If you reference one of these sources for an answer, be sure to note it for your future rence.
1.	What type of engine does the Archer have?
2.	What is the engine horsepower?
3.	How many gallons of usable fuel does the Archer hold?
4.	What type of oil should be used in this engine?
5.	Please write the speed on the Archer (in Knots) for each item below, and define in your own words
	the significance of each speed and how it is used:
	$ m V_R$
	\mathbf{V}_{X}
	$\mathbf{V}_{\mathtt{Y}}$
	Best Glide
	$ m V_{NE}$
	V_{NO}
	V_{A}
	$ m V_{FE}$
	$V_{\mathtt{S1}}$
	V_{S0}
6.	What is the maximum demonstrated crosswind component for the Archer?
7.	What is the service ceiling of the Archer?
8.	What is the takeoff distance to clear a 50 foot obstacle on a standard day?
9.	What is the landing distance over a 50 foot obstacle on a standard day?
10.	What is the maximum RPM setting?



11.	Please describe the loss of engine procedures for the Archer.
12.	What is the maximum gross weight of the Archer?
13.	What is the empty weight of the Archer?
14.	What is the useful load of the Archer?
15.	With full fuel, how much weight can you carry in Archer?
16.	What preflight actions are required before a flight not in the vicinity of an airport? Before any flight?
17.	List the minimum equipment and instruments that must be working properly in your aircraft for
	flight.
18.	How many hours are required between consuming alcohol and flying? What is the
	maximum blood alcohol content to legally operate an aircraft?



19.	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 Archer have?Why is it necessary to drain fuel from the fuel sumps?		
21.	Mileon should this he done?		
	When should this be done?		
22.	What type and grade of fuel is used by the Archer?		
23.	What is the acceptable operating range for oil quantity in the Archer?		
24.	Will the engine run with the master switch turned off?		
	Why or why not?		
25.	What is the maximum allowable flap setting for takeoff in the Archer?		
26.	During a magneto check, what is the maximum RPM drop?		
	How much difference is acceptable between the left and right mags?		
27.	Draw a diagram of the runways at your airport. Label each runway.		



28.	Draw a runway and a "normal" traffic pattern. Label each leg.	
29.	Which turn direction is standard for a traffic pattern?altitude at your airport?	What is traffic pattern
30.	How do you enter and exit the traffic pattern at an uncontrolled airport?	
31.	List the following frequencies at your airport:	
	ATIS:	
	Ground:	
	Tower:	
	Approach Control:	
	Emergency:	
32.	Describe, "Wake turbulence". In which type of aircraft and in which configu	ration is this most
	prominent? What is proper procedure to avoid wake turbulence?	



33.	When are you required to wear a safety belt? Shoulder harness?
34.	What must a pilot do before entering each of these airspace classes? Class A:
	Class B:
	Class C:
	Class D:
	Class G:
35.	What is the minimum fuel requirement for VFR day conditions?
36.	If the altimeter setting is not available at an airport, what setting should you use before departing on a local flight?
37.	What must you do before performing flight maneuvers?
38.	When practicing Steep Turns, Stalls, and Slow Flight, the entry altitude must allow a recovery to be completed no lower than
39.	When two aircraft of the same category are converging head-on, which way do you turn to avoid the other aircraft?
40.	Give three situations that would necessitate a go-around.
	a)
	b)
	c)
	List the procedure for a go-around:
41.	What documents and endorsements are you required to have in your possession to legally operate the airplane as a solo student pilot?



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42.	What are limitations your instructor may place on your solo endorsements?		
43.	What are the limitations of a student pilot, as stated in Regulations?	n Part 61.89 of the Federal Aviation	
I h	actor Statement: ave reviewed this pre-solo written exam with the stude corrected by the student, are complete and correct.	ent and have determined that the answers,	
Instruc	ctor Signature:	Date:	
Studen	nt Signature:	Date:	
SOLO	FLIGHT CHECKLIST – per FAR 61.87		
	Demonstrate satisfactory knowledge on a Presolo w with an instructor.	ritten test, and review all incorrect answers	
	Receive and Log training on: 1. Preflight panning and preparation, powerpla 2. Taxiing or surface ops, including runups 3. Takeoffs and landings, including normal and 4. Straight and level flights, and turns in both of 5. Climbs and climbing turns 6. Airport traffic patterns, including entry and 7. Collision avoidance, windshear avoidance, a 8. Descents, with and without turns, using high 9. Flight at various airspeeds from cruise to slo 10. Stall entries from various flight attitudes and at the first indication as well as recovery fro 11. Emergency procedures and equipment malful 12. Ground reference maneuvers 13. Approaches to a landing area with simulated 14. Slips to a landing 15. Go-arounds	departure Indicate the departure and wake turbulence avoidance Indicate and low drag configurations Indicate the departure are the departure and low drag configurations Indicate the departure are the departure and the departure are the departure	
	Demonstrate satisfactory proficiency and safety in t	he make and model of aircraft to be flown.	
	Receive an endorsement in the student's logbook for flown by an authorized instructor who gave the train the flight.	<u>-</u>	

