RFC Dallas, Inc. AIRCRAFT QUESTIONNAIRE

Version 2.0 10/26/2020

Name:		Date:
Aircraft: Cherokee 180 Model: PA-2 Registration Number: N4746L	28-180	
Answer the following questions by using the infor No. 28-4074), the current Weight and Balance sup Checklist, and the FARS/AIM. After being review submitted to the RFC Dallas Inc. Safety Officer be	oplement, placards affixed to the wed by a Club Checkout Instruct	aircraft, the RFC Cherokee 180 or, this questionnaire must be
1. How many fuel drains must b	e checked during prefl	ight?
2. The Airplane Flight Manual sengine is quarts at quarts. However, RFC recommendates less than	nd the minimum safe q nmends adding a quart	uantity is
3. After starting the engine, what oil pressure must be indicated		that may elapse before
4. During the pre-takeoff engine RPM. As each magneto is ind drop is RPM.		
5. To shorten takeoff distance, a	a flap setting of	degrees may be used
For questions 6 thru 10 below, use the answer the subsequent questions performs		
Conditions		
Preflight Pressure Altitude	1600 ft.	
Temperature	30° C	
Aircraft Gross Wt	2400 lbs.	
Runway Surface	Paved/Level/Dry	
Wind	Calm	
6. The aircraft will use a minimulength prior to liftoff.	um distance of	_ ft. of the runway's
7. A total distance of fine obstacle, using the recommen		earing a 50 foot

the ai	_	t. obstacle at the approadum distance of	_
	is the power off stall some in the power off stall some in the sta	peed, with flaps up, and	0° angle of bank?
	is the power off stall s MPH.	peed, with flaps up, and	a 45° angle of bank?
	are the V-Speeds for the weight @ sea level)	his aircraft in MPH? (Co	onditions: Maximum
	Vne	Maximum Glide	
	Vno	Enroute climb	
	Va		
	Vfe	Final Approach with	h
	Vx	40° flaps	
	Vy	Balked landing	
	Vsi Vso	(w/full flaps)	
		e airspeed when using 24 MPH.	400 RPM at a density
		able gross weight for th	is aircraft? lbs.
		d empty weight, arm, an inches.,	nd moment for this actual lb inches.
	much additional weigh 1? lbs.	t can be carried with ma	aximum fuel and oil on
16.At ma	aximum gross weight, v	what is the <u>forward</u> C. G	6. limit? inches.
17.At ma	aximum gross weight, v	what is the <u>rearward</u> C.	G. limit? inches.
18.What	is the maximum weigh	nt for the baggage area?	lbs.

Use the following sample information while completing questions 19 & 20: Aircraft Licensed Empty Weight = 1,448.00 lbs Aircraft CG = 86.21 inches Aircraft Moment = 124,827.20 lb inches Arms: Front Seats = 85.5 inches Rear Seats = 118.1inches Fuel = 95.0 inches Engine Oil = 31.7 inches 19. Given the following aircraft loading criteria: Pilot 185 lbs **Copilot** 190 lbs Rear Pax 105 lbs Full Fuel (50 gal) Oil 6 quarts The Gross Weight is _____ lbs. The C.G. is _____ inches aft of datum. Is the aircraft loaded within allowable weight limits? Is the aircraft loaded within allowable C.G. limits? 20. Given the loading scenario from the previous question, adding 50 lbs. of weight in the baggage compartment will cause: a. The aircraft's rearward C.G. limit to be exceeded b. The aircraft's forward C.G. limit to be exceeded. c. The aircraft's maximum gross weight to be exceeded. d. The aircraft to be within weight and C.G. limits.

21. What is the total <u>usable</u> fuel capacity in gallons and the minimum grade permitted? gals.,octane.						
22. What is the recommended viscosity of oil (ashless dispersant) to be used when operating in temperatures between 30°F & 90°F?						
23. What is the rated BHP of the engine installed in this aircraft at maximum allowable RPM? BHP RPM						
24. Where is the ELT located?						
25.Can it be activated manually? Explain how						
26.Is this aircraft equipped with a heated pitot tube?						
27. What type of stall warning indicator is installed in this aircraft? (Horn, Buzzer, Light, Siren)						
28. How do you test the stall warning system on the ground?						
29. The battery is (6, 12, 24) volts?						
30. Which of the following axis can the pilot manually trim?						
Pitch						
Roll						
Yaw						
31. What initial actions should immediately be taken upon losing engine power during flight?						
a						
b						
c						
d						

e.				
f.				
g.				
	are the presc developed sp		rol inputs to	initiate a recovery from a
Powe	r			
Ailero	ons			
Rudd	er			
Eleva	tor			
33.This a	aircraft is app	roved for flight in	to known icii	ng conditions?
a.	True			
b.	False			
34.Is the	GPS in this a	nircraft certified fo	or use in instr	ument conditions?
a.	Yes			
b.	No			
		91.7, who is respondential of the safe & leg		etermining whether the
REVIEWED BY	·			DATE: