

PACIFIC FLYING CLUB

Piper Seneca I (PA34-200) Aircraft Operating Manual Exam

Member Name	Date
Corrected to 100% - Instructors Name	Signature
Performance	
1) What are the critical speeds for the follo	owing conditions?
 a) Stall Speed Landing Configuration b) Stall Speed Clean Configuration (VC) c) Rotation Speed (VR) d) Minimum Controllable Airspeed (Polyare) e) Best Angle of climb (VX) f) Best Rate of climb (VY) g) Best Single Engine Rate of Climb (Polyare) i) Meyer Exceed Speed (VNE) i) Maximum Structural Cruise (VNO) j) Maximum Gear Extended Speed (VNE) 	VS at 4,200LBS) MPH MPH WMC) MPH MPH MPH MPH MPH MPH MPH MP
k) Maximum Gear Extension Speed (Maximum Gear Retraction Speed (Design Flap Speed Design Flap Speed Design Flap Speed Design Flap Speed Minimum Flap Retraction Speed Maneuvering Speed @ 2743 lbs (V O) Maneuvering Speed @ 4200 lbs (V	VLO down)MPH (VLO up)MPH WFE)MPH d 10° (VF)MPH d 40° (VF)MPH MPH MPH MPH MPH MPH MPH MPH MPH MPH
2) The maximum demonstrated crosswind	component isKTS.
3) What is meant by the term one engine in	noperative service ceiling?



The service ceiling to The single-engine set (4,200LBS)	For this aircraft iservice ceiling for this aircr	feet (4,200 raft is	LBS) feet
4) The fuel consum	ption at 65% power is	GPH	
5) The maximum ra	ted horsepower is	HP at	RPM
conditions?	off distance over a 50' obs Cemperature: 50° F Altitude: 3000' Veight: 3600 lbs Vind: 15 MH headwind	stacle under the	e following Feet
conditions?	e engine climb performan ressure Altitude: 4000' Temperature: 85°F Veight: 4200 lbs	ce under the fo	llowing
Weight and balan	ce		
1) List the follow	ving weights:		
Maximi	ım take-off weight ım landing weight ım zero fuel weight	lbs	
2) The forward l maximum we located	paggage compartment is light is The aftermost and its maximum w	ocated t baggage comp eight is	_and its partment is
3) Maximum po	sitive load factor is	G.	
2 males 2 fema 65 US (150 lbs	les Gal fuel baggage ine the gross weight, cent	G .	nd zero fuel



Fuel System

1)	The recommended fuel grade is	
2)	The total fuel capacity isUS Gal. The total useable fuel isUS Gal.	
3)	Explain the procedure for drawing fuel from the tank on the side opposite to the operating engine	
Prop	eller System	
1)	When is it not possible to feather the props?	
2)	When checking the feathering system during the run up, what indicates that the system is functioning normally?	
3)	The maximum RPM allowed when exercising the propeller during the run-up isRPM	
Landing Gear System		
1)	How is hydraulic pressure supplied to the landing gear system?	

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- 2) Why is it not advisable to move the gear selector to the opposite direction while the gear is in transit?
- 3) How is inadvertent gear retraction prevented while the aircraft is on the ground?
- 4) What is the procedure for manually extending the gear?



Electrical System

	1) What indication would alert the pilot that the over voltage relay has tripped?	
	2) What is the maximum continuous output from the alternators?	
	3) What is the procedure to be followed if both over voltage lights illuminate?	
Pitot	Static System	
1)	Where are the static and pitot system drain valves located?	
Proc	edures	
1)	When is asymmetrical power to be used while taxiing?	
2)	When should the landing gear be retracted after take-off?	
3)	The flap setting for a normal take-off is	
4)	Why should you wait until 500' AGL before setting climb power?	
5)	The recommended speed for approach and landing isKIAS The recommended flap setting is	
6)	What is the proper procedure for a go-around?	



Emergencies

1) When do you use the alternate air source?
2) What are the suggested procedures to attempt to restore power prior to feathering a propeller?
3) If an engine failure occurs on take-off belowthe take-off must be aborted. What would happen if you were to continue with the take-off below speed?
4) Explain procedure to follow in the event of the following emergencies:
Engine fire in flight
Electrical fire in flight
Propeller over speed
Vmc- Minimum Controllable Airspeed
1) The minimum altitude that Vmc shall be demonstrated isft AGL.
2) What is the recovery procedure for Vmc?
3) How does Vmc vary with the following?
Maximum Gross Weight High Altitude
Aft C of G Flaps Extended
Landing Gear Extended