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## **CP AVIATION**

## AIRCRAFT GROUND REVIEW

[ALL AIRCRAFT DOCUMENTS MAY BE USED FOR THIS REVIEW]

Use this form as an aid in reviewing FAR Part, fundamental specifications, systems, and procedures for aircraft to be flown. All questions may not be applicable to all aircraft. Utilize aircraft document, placard and markings.

PI	LOT		A/C MA	KE/MODEL		
1.	Sect. 1. Total fuel capaci	ty:		No. of tanks:		
	Total usable:	Fuel g	rade:	Color:		
2.	Sect. 7. Fuel drain location	on:				
	When are they d	rained:				
3.	Sect. 1. Recommended g	rade of oil:				
	Sect. 7. Minimum operat	ting oil level:		Normal operating oil	level:	
4.	Sects. 2 & 5. List the following	lowing speeds:				
	Vso	Vx	Vfe	Vlo	Vmc	
	Vso(60°AOB)	Vy	Vno	Vle	Vyse	
	Vs	Va	Vne	Vref	Vxse	
5.	Sect. 2. What is the purp	ose of flaps:				
6.	Sect. 3. What is best glid	e speed:				
7.	Sects. 3 & 7. What are th	ne "Unsafe Gear" i	ndications:			
8.	Sect. 3 How do you dete	ct carburetor or in	duction ice:(As app	ropriate)		
	In the event of ic	ce, what do you do	:			
9.	Sects. 3 & 7. What is the	indication of an a	lternator malfunctio	on:		
	Action to r	estore electrical fu	unction:			

10.	Sects. 5 & 7. Location of alternate static source:	
	Effect of alternate static source on ins	struments:
11.	Sect. 4. Approach airspeed with flaps:	Without flaps:
	Short field approach airspeed:	
12.	Sect. 4. Maximum crosswind component:	(Demonstrated or 20% Vso)
13.	Sect. 4. Go around procedure:	
14.	Sect. 5. What is the power setting, fuel consumption	on and TAS for the following:
	65% power, 8,000 ft., standard temper	erature
	Manifold pressure	RPM
	Fuel consumption	TAS
	75% power, 7,500 feet, standard temp	perature
	Manifold pressure	RPM
	Fuel consumption	TAS
15.	Sect. 5. Short field take off, maximum gross weigh	nt, 0 KTS wind for,
	Sea level 15°C	5,000 ft,40°C
	feet roll	
	50 ft obstacle	
16.	Sect. 1, 2, & 6. Empty weight:	Useful load:
	Maximum takeoff weight:	Landing weight:
	Center of gravity range (max weigh	ht):
17.	When are passengers required to have their seatbel	Its fastened:
18.		ring flight: 1)
		4)
		)

19.	Basic VFR weather minimums for f	light in Class D airspace:	
	Ceiling:	Visibility:	
20.	To enter a Class D airspace, an airpl	ane must have:	
	Class C:		
21.	VFR cruising altitudes are required a	above what minimum altitude:	
22.	What inspections are required on Le	ased/For Hire aircraft:	
		Airspace:	
23		g procedure:	
23.			
24.	RANGE		
	DESTINATION – App	ble Valley (APV)	
	PA = 7,500 FT	TAS =KTS	FUEL STOPS
	$TEMP = +15^{\circ}$	GPH =	FUEL REQUIRED
	WIND = 090°/20 KTS	DAY VFR RESERVE	FUEL REMAINING

25. Work this sample weight and balance problem: Carry max. passengers at 170 lbs. ea., max. baggage, then fuel to max. takeoff weight.



## WEIGHT & BALANCE WORKSHEET

Max Gross Weight:	CFI Name	e:	
Weight   Arm   Moment			
Basic Empty Weight:	Weight	Aim	IVIOIREII
Front Passengers:			
Rear Passengers:			
Front Baggage:			
Rear Baggage:			
Total Usable: 6 lb. per gal.			
o to: per gui.	IL	IL	<u> </u>
Total Weight:			
Total Moment:			
<u> </u>			
Total Moment/T	Cotal Weight =	C	G Limit
CG Limit:		Aft CG Lim	it:
	Useful Load:		