Name:		 	



Please complete this assessment prior to arrival for your accelerated multi-engine rating course. Bring the completed form with you to review with your instructor.

1.	Name the Federal Aviation Regulation "FAR" part governing multi-engine aircraft certification	n. FAR Part
2.	Does the B95A or D95A have any single engine climb requirement for certification?	why or why not?
3.	What percentage of performance is lost after losing one engine on the B95A or D95A?	%
4.	What are the three drag factors that cause the huge loss in performance with a failed engine	?
	a	
	b	
	c	
5.	Define the following and note the ceiling limit for the B95A or D95A:	
	a. Absolute Ceiling	
	b. Service Ceiling	
	c. Single Engine Absolute Ceiling	
	d. Single Engine Service Ceiling	
6.	Define VMC	
	a. which FAR(s) define this: 23 and 23 (traditional vs more re	
7.	Who determines VMCa?, and; what criteria are used to dete	rmine published VMCa?
	a. C	
	b. O	
	c. M	
	d. B	
	e. A	
	f. T	
	g. S	
8.		
9.		
•	a. P	
	b. A	
	c. S	
	d. T	

Name:
-------



10. How would you overcome side slip after losing an engine in-flight?	

11. Choose the best answer with regards to the following factors affecting VMC:

Factor	Performance	Drag	VMC
(Example) Gear Down	Decreases	Increases	Decreases <b>1</b>
Windmilling Propeller			
In Ground Effect			
Higher than Std Temp			
High Density Altitude			
Bank 0 Degrees			
Colder than Std Temp			
Add Power to operating engine			
Feathered Propeller			
Bank 5 degrees			
AFT CG			

a.	Loss of	control	
b.	warning or	of the controls	
c.	A	of control effectiveness	
	s the process to recover from VMC? Simultaneous Pitch	and Reduce	on the
a.	engine, ther	n at begin to	

Name:			



15.	Name the step	os followi	ng the loss of power or l	oss of an engine in a m	ulti-engine aircraft:	
	a. Maint	ain		and Pitch for		
	b. Powe	r up:	full,	full,	fu	u
	c		(dead foot – de	ead engine)		
	d		(cautiously ret	ard the inoperative eng	gine throttle to idle)	
	e. If belo	ow 3,000'	AGL th	ne prop on the inop eng	ine and pull mixture to	)
	f. If abo	ve 3,000'	AGL	;		
	i	•	,			
	ii	•				
	iii	•	, if not rest	art, then;		
	iv	. Secur	e the	engine and use the	·	
16.	Note all of the	following	g V-Speeds for the B95A	and D95A.		
	Vso		Vmc	Vr	Vx	Vxse
	Vyse		Vy	Vg (gross)	Vle	Vfe
	Va (gross)		Vno	Vne	Vsse	
17.	Define the foll	owing ter	ms:			
	a. Accel	erate Sto	p Distance:			
	b. Accel	erate Go	Distance:			<u>-</u>
18.	Does the B95	or D95A	have an Accelerate Go	Distance?		
19.	Define Zero Fu	ıel Weigh	t Limitation:			
20.	horizontally _ minimum of _		e B95A or D95A? quarts and maximi	aspirated, um of	HP (each) quarts. Fuel burn rate	with an oil capacity of a planned is
	when in use.					
21.	What type of p	ropellers	are on the Travel Air? _			
22.	What is differe		the propellers on the Tra	-		
23.	What device o	n the eng	gine accessory case mai	ntains the constant RP	M of the propellers? _	
24.	Name the thre	e parts o	f the propeller governor	:,	<b>,</b>	

Name:			



25.	What is	s a nitrogen unfeathering accumulator and what is i	t designed to do?		
	a.	What should the unfeathering accumulator press	ure be when serviced prop	perly?	_ PSI (+/- 5)
26.	What a	re the starter limitations on the Travel Air?	seconds on,	seconds off, _	
	attemp	ts, then you must wait	minutes.		
27.	What ke	eeps the propellers from going into "feather" when	the airplane is shutdown?		pins
28.	What to	otal gallon capacity of fuel does the Travel Air hold?	gallons	s with	_gal useable;
	What is	s the capacity of the Main Tanks	_, AUX Tanks		
29.	How ma	any fuel sumps does the Travel Air have?			
30.	What a	re the three fuel system limitations for the Travel Ai	r?		
	a.	Always take-off and land on the			
	b.	Never take off with less than	gallons or in the	arc	
	C.	Always wait seconds after a _			
31.	Describ	oe the landing gear on the Beechcraft Travel Air:			
	a.	It is powered by	motor that turns a		disk, which
		is connected to	rods (tubes), that then	and	I
		the and	·		
	b.	What is a Squat or "weight on wheels" switch:			
	C.	Which direction would you crank the emergency motor)? approxim			lure of the gea
	d.	What keeps the gear in the up and locked position	1?		
	e.	What keeps the gear in the down and locked posi-	tion?		
	f.	What three conditions would cause a gear warning	g horn to sound?		
		i	when	gear is up	
		ii	when	gear is up	
		iii	when	gear is up	

Name:	
-------	--



32.	What BTU is the heater on the Beechcraft Travel Air:		BTU			
33.	How much fuel does the heater burn when operating continuou	sly?		_gal per _		_
34.	Where does the heater draw fuel from?					
35.	How many fuel pumps are on the Beechcraft Travel Air? Circle:		3	4	5	
36.	What hydraulic system is on the Beechcraft Travel Air?					
37.	What voltage is the B95A/D95A	-				
38.	How many batteries does the B95A / D95A have?		wha	t is the exce	ess voltage	used for on
	the electrical alternator system?					
39.	What are the three switch settings for the flaps on the B95A/D95	5A?		,	······································	
	a. What flap settings are possible from deg	rees to a n	naximun	n of		degrees
40.	If you lost an engine and needed to use the fuel from the inopera	ative engir	ne side ta	anks (main	or aux), wh	at position
	would you place the inoperative engine selector to		and w	/hat positio	n would yo	u place the
	operating engine selector side to V	Vhat woul	d happe	n if you pla	ce the selec	ctors both to
	the "Cross-Feed" position?					
41.	Does the Travel Air have a maximum demonstrated cross-wind?	YES or	NO. If	Yes, what i	is it?	
42.	Why are spins in a multi-engine aircraft not recommended?					
43.	Why are flaps not recommended for take-off? The POH in the 19	60s recor	nmende	d using 30	degrees of	flaps, rotate at
	70 mph, and climb out at 90 mph (vx). What risk(s) would this po	ose assum	ning a los	s of power	on take-off	?