Accident Prevention Program

MEET YOUR AIRCRAFT

Purpose

This quiz is designed to aid a pilot in understanding the aircraft he flies. Although no attempt is made to cover in depth all information contained In the typical Owner's Manual, this booklet will provide a review of the basic information a pilot should know before taking off on a crosscountry flight. Since the questions are designed to be answered in an open book fashion, no minimum passing score is set, although it is assumed that a pilot holding at least a private license would score high. It is suggested that, in addition to the review provided by this booklet, a thorough, periodic review be made of the Owner's Manual.

Instructions

Since this is an open book test, you may use any book which will provide you with a correct answer. The Owner's Manual for the aircraft you plan to use is required, and the Airman's Information Manual is suggested. All answers concerning aircraft performance and limitations should be obtained from the Owner's Manual for the aircraft you plan to fly. If you find a question not applicable to this aircraft, simply omit it. If you are unable to locate the answer to a given question, we suggest you discuss it and any questions answered improperly with your flight Instructor.

Name					
Date					
	Airman's				
Make Model					
certificate					
Ratings	Medical certificate				
date	Cype Capitación				
<u> </u>					
Total time Last 90 days	Time in make &				
model					
Date of latest biannual flight rev	riew				
1. What is the normal climbout spe	ed?				
2. What is the best rate of climb	speed?				
. What is the best angle of climb speed?					
4. What is the maximum flap-down speed?					

5. What is the maximum gear-down speed?	
6. What is the stall speed in a normal landing configuration?	
7. What is the clean-stall speed?	
8. What is the approach-to-landing speed?	
9. What is the maneuvering speed?	
10. What is the red-line speed?	
11. What engine off glide speed wlll give you the marange?	ximum
12. (Multi-engine only) What is the VMC?	
13. What is the make and horsepower of the	
engine(s)?	Нр.
14. What is the estimated TAS at 5,000 ft. and 65% power?	
15. What RPM or combination of RPM and Manifold Prespower	sure yields 65%
at 5000'MSL?RPM &	MP
16. How many gallons of fuel are used per hour at	
65% power at 5000' MSL?	
17. How marry Usable gallons of fuel can you carry?_	
18. Where are the fuel tanks located, and what are t	
Main tank gal	heir capacities?
	heir capacities?
Left tank gal	_
	lons
Right tank gal	lons
Right tank gal	lons
Right tank gal	lonslonslonslons
Right tank	lonslonslonslonslonslons

minut	te	
_	reserve, what is the maximum duration (In s)?	
	What speed will glve you the best glide o?	
	What is the octane rating of the fuel used by raft?	thls
	How do you drain the fuel	
	What weight of oil is being	
	Is the landing gear fixed, manual, hydraulic,	or
	tric? If retractable, what is the back-up system fo	or lowering the gear?
26. W	What is the maximum allowable crosswind compo	onent for the aircraft?
27. Hold?	How many people will this aircraft carry safe?	ely with a full fuel
	What is the maximum allowable weight the aird baggage compartment(s)?	eraft can carry in the
R	Rearlbs	· ·
F	Frontlbs	·
В	Bellylbs	J.
L	Left engine nacellelbs	· .
R	Right engine nacellelbs	5 .
T	Totallbs	·
	What take-off distance is requlred to clear a maximum gross weight at a pressure altitude o	
d	degrees (F)? (Assume no wind and a hard surfa	ce runway.)ft.
30. W	What would the answer to number 29 be if the	take-off were made

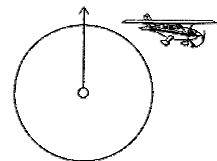
20. With full fuel load at 65% power, at 5,000 ft., allowing a 45

	from a sea level pressure altitude?ft.
31.	Would high humidity increase or decrease this distance?
32.	How do you find pressure altitude?
33.	What is your maximum allowable useful load? (Check the weight and
	balance data in the aircraft, not the Owner's Manual.)Ibs.
34. make	Solve the weight and balance problem for the flight you plan to
seat	If you plan to fly solo, solve for a 170 Ib. passenger In each
enve	Does your load fall within the weight and balance elope?
prol	What is your gross weight?Ibs. If you solved the blem contemplating 170 Ib. passengers in each seat, how much fuel could
Whe	you carry? re?
carı	If you carry full fuel how much baggage could you ry?Ibs.
When	re?
	Where can you find an FSS phone ber?
36.	List two frsquencies you can use to contact the FSS: Transmit Receive
	1
	2
37.	What is the emergency frequency?
38.	To operate a fixed wing aircraft in a Groupl TCA, the aircraft must have the following equipment:
1	
	2. An operable two-way radio capable of communicating with the

appropriate ATC facility
3. An operable coded radar beacon transponder having automatic pressure
altitude reporting capability
39. What are the minimum FAR requirements for a pilot to legally carry
passengers?
40. What is the present ceiling and surface wind at YTR? YTR SA2200 50SCT 100BKN 250BKN 12 128123116123041991
41. On the weather sequence reports the wind speed is given in knots; how is visibility measured, in nautical miles or statute miles?

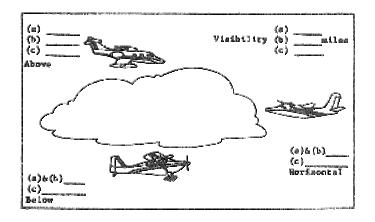
42. Assuming the aircraft shown below is tuned to the VOR pictured and the VOR receiver OBS is set on 45 degrees, is the To-From read-out

reading To or From?_____



43. Fill in the blanks below, indicating cloud clearances and visibillty ${\bf r}$

required by the Federal Air Regulations (a) within and (b) outside controlled airspace, and (c) more than 1200 ft. above the surface and over 10,000 MSL.



Use the drawing below for the next two questions.

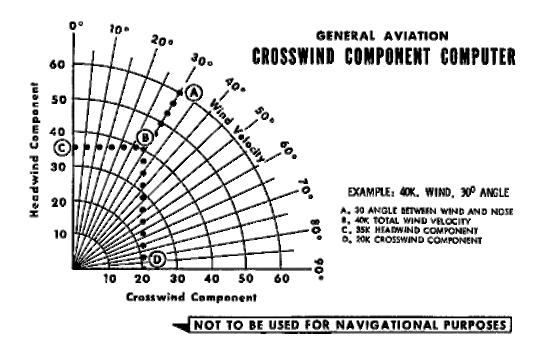
Area	A I	Area B	T	Area C	\neg		
	He too	avy jet transpo: chdown/liftoff ;	t. point				
 < 5000				5000'			

44. If you must take off following a departing jet transport on the same

runway, in what area should you plan your lift off?

Area A, B, or C?_____

45. If you must land behind a landing jet transport, where should you aim for touchdown? Area A, B, or C?______



Standardization

+

Attitude

+

Familiarity

+

Experience

+

Technigue

+

YOU

...makes it all add up in your favor!

(END OF DOCUMENT FAA-P-8740-29 AFO-800-0680)