Beale Aero Club Aircraft

Written Test

PA-28 161 Piper Warrior

(Required passing score: 80%)

THIS TEST IS NOT COMPLETE WITHOUT BOLDFACE/OPS LIMITS

PLEASE MAKE SURE ALL ANSWERS FOR THIS TEST ARE ON FORM 1584C- ANSWER BUBBLE SHEET LOCATED IN THE BEALE ONLINE LIBRARY

1.	En	Engine oil quantity is a maximum/ minimum of quarts.				
	a.	5/4				
	b.	8/6				
	c.	10/8				
2.	Ma	aximum gross weight and maximum baggage weights are and				
	a.	2500/ 150				
	b.	2300/ 150				
	C.	2440/ 200				
3.	Maneuvering speed at 2440 lbs is and 1531 lbs is					
	a.	111 KIAS/ 88 KIAS				
	b.	99 KIAS/ 88 KIAS				
	C.	108 KIAS/ 89 KIAS				
4.	En	gine fire during start is usually the result of:				
	a.	over priming				
	b.	broken fuel lines				
	c.	electrical problems				
5.	If p	power loss occurs at low altitude, maintain an airspeed of KIAS.				
	a.	65				
	b.	73				
	C.	80				
6.		an engine failure was caused by fuel exhaustion, power will not be restored after switching tanks il empty lines are filled. This will require seconds.				
	a.	5				
	b.	10				
	c.	15				
7.		e to higher voltage and radio frequency noise, operation with the ALT switch ON and the BATT tch OFF should be made only when required by:				
	a.	electrical failure				
	b.	saving battery power				
	C.	none of the above				

8.	Pa	rtial carburetor heat may be worse than no heat at all since:			
	a.	it may melt part of the ice			
	b.	cause the engine to run rough			
	c.	it will have no effect on engine performance			
9.		e use of carburetor heat on the ground for prolonged periods should be avoided because the air infiltered.			
		true false			
10.	The electric fuel pump should be in the "on" position for the following operations:				
		engine priming			
	b.	takeoff			
	c.	both a and b			
11.	When starting a flooded engine, the mixture control should be in which position?				
		full rich			
	b.	idle cutoff			
	c.	half lean			
12.	Ch	eck the magnetos during engine run-up atRPM. The differential drop should not exceedRPM and maximum drop on either magneto should not exceedRPM.			
	a.	1700/ 75/ 125			
	b.	1800/ 50/ 150			
	c.	2000/ 50/ 175			
13.	The fuel selector should be on the fuel tank prior to landing.				
	a.	fullest			
	b.	left			
	c.	right			
14.	Ini	tial approach speed isKIAS while final approach speed isKIAS with full flaps.			
	a.	70/63			
	b.	75/ 66			
	c.	85/70			

15.		2300 lbs, a pressure altound roll and distance to			-		
	a. b. c.	1300/ 2500 1500/ 2600 1600/ 2800					
16.		maximum gross weight nb should beFP	•	tude of 4,000 ft,	and stand	dard tempera	ature, the rate of
	b.	450 525 600					
17.		at gross weight, a pressure altitude of 5,000 ft, 80°F (26°C), 75% power (leaned for best power) est power will be obtained by setting the throttle toRPM.					
		2450 2575 2650					
18.	8. Given the following conditions, the aircraft weight and balance is:						
		Empty weight Pilot & pax Rear pax fuel baggage	1478.4 lbs 300 lbs 180 lbs 50 gallons 50 lbs	moment	125871.	0	
		a. within limitsb. over gross weight ac. within gross weight					
19.	Th	is airplane is rated at	horsepo	wer and	RPM.		
	a. b. c.	145/ 2700 160/ 2700 180/ 2800					
20.	Th	e fuel quantity is	total,	usable (all flight	condition	ıs) and	_ at the tabs.
	a. b. c.	36/ 34/ 20 52/46/ 38 50/ 48/ 34					

21.	Th	e electrical system includes a volt, amperes alternator and a volt battery.			
	b.	14/ 60/ 14 14/ 60/ 12 12/ 30/ 12			
22.	2. The ammeter displays:				
	b.	battery voltage current flow to and from the battery load on the alternator			
23.	. How are both the pitot and static lines drained?				
	b.	a lever on the back side of the pitot head through separate drain valves located on the left lower side of the fuselage interior they can't be drained			
24.	Th	e stall warning horn is typically activated at:			
	b.	stall speed 5 to 10 kts below stall speed 5 to 10 kts above stall speed			
(Fo	r qu	estion 25 refer to the Aircraft Supplements available in the Beale Online Library)			
25.	Wł	nat information is given on the Aspen (EFD 1000 PFD) data bar?			
		indicated airspeed, heading, altitude true airspeed, wind speed/ direction, ground speed true course, VOR frequency, wind correction			