Beale Aero Club Aircraft

Written Test

T41-C

(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.	The maximum gross weight for normal category operations islbs.		
	a. 2200 b. 2500 c. 2700		
2.	. What is the maximum amount of time for operating the starter motor and the cooling time between starts?		
	 a. 30 seconds and 3 minutes b. 1 minute and 3 minutes c. 2 minutes and 5 minutes 		
3.	Should the oil pressure indications become abnormal in cold weather for no apparent reason, you should:		
	a. continue to destination and be watchful for other signs of engine problemsb. shut down the enginec. declare an emergency and land as soon as practical		
4.	Except during emergency engine shutdowns, the fuel shut off valve should be left in the push position.		
	a. onb. offc. does not matter		
5.	Should the aneroid in the engine driven fuel pump fail, it will fail in the position.		
	a. full richb. full leanc. present		
6. Fuel quantity indicators are accurate only in:			
	 a. stabilized straight and level flight b. level flight below 2300 RPM c. RPM settings below 1500 		
7.	If no other electrical malfunctions exist, how many times may a circuit breaker be reset?		
	a. 0 b. 1 c. 2		

8.	Th	e stall warning horn is designed to activate	knots above stall?	
	b.	3-5 5-7 5-10		
9.	the pitot heat is turned off:			
	a. b. c.			
10.	Do	on not use the cabin heating without:		
	b.	a source of fresh air closing the cabin vents selecting an RPM setting below 2300		
11.	The engine should start within 2 or 3 revolutions. If this does not occur, the probable cause is:			
	a. b. c.	excessive lean or rich mixture vapor lock both a and b		
12.		throttle setting ofRPM while stopped on th d prevent spark plug fouling.	e ground will aid in engine cooling, lubrication	
	a. b. c.	800 1000 1200		
13.	Excessive RPM during ground operation may result in FOD to:			
	a. b. c.	stabilizer propeller both a and b		
14.	Th	e engine oil pressure gauge should show a positiv	re indication within seconds.	
	a. b. c.	30 45 60		

15.	If the magneto switch is accidentally turned to the OFF position during the magneto check, you should:
	a. turn back to both immediately
	b. leave in the OFF position and retard the throttle to idle
	c. return to the parking ramp for a maintenance check
16.	During a short field take off, once safely airborne and clear of obstacles, raise the flaps at a
	minimum speed ofMPH.
	a. 75
	b. 85
	c. 95
17.	In the event of an engine driven fuel pump failure, the best chance of regaining engine power is:
	a. throttle position above 2100 RPM
	b. aux fuel pump switch to LOW
	c. both a and b
18.	If an ammeter deflection follows throttle movement, usually the cause is:
	a. engine over speed
	b. throttle increased too rapidly
	c. a faulty regulator
10	During spin recovery, premature relaxation of the control inputs may the recovery,
13.	resulting in additional altitude loss.
	a. expedite
	b. inhibit
	c. delay
20.	Using the licensed empty weight normal category (sample airplane) weight and moment, with full
	oil, full fuel, 1 pilot at 180 lbs, 1 front passenger at 130 lbs, a rear seat passenger at 160 lbs, and a 5
	lbs in the baggage compartment, determine the total weight and moment of the aircraft.
	a. 2440 lbs and 100.25 lb-in
	b. 2238 lbs and 91.15 lb-in
	c. 2169 lbs and 95.80 lb-in
21.	Using the data in question 20, if there was and additional rear passenger at 180 lbs, would the
	aircraft still be inside the center of gravity and moment envelope?
	a. yes
	b. no

22. With the weight of 2200 lbs, 75°F, pressure altitude of 2,500 ft, 10 kt headwind, determine to to distance necessary to clear a 50-foot obstacle on takeoff.	:al
a. 890 ft b. 979 ft c. 780 ft	
23. At 7,500 ft pressure altitude, 2600 RPM, TAS will be and fuel burn will be GPH:	
 a. 126 MPH – 8.7 b. 138 MPH – 10.5 c. 128 MPH – 9.2 	
24. What is the landing distance (ground run and total to clear a 50 ft obstacle) for a max gross weight aircraft with 5 kts of headwind at 2,500 ft pressure altitude?	nt
a. 585 ft 1,251 ft b. 715 ft 1,529 ft c. 650 ft 1,390 ft	
(For question 25 refer to the Aircraft Supplements available on the Beale Online Library)	
25. For EDM (engine data management) fuel calculations to be accurate, it is that you inform the EDM of the correct amount of usable fuel onboard the aircraft.	m
a. advisedb. mandatoryc. not necessary	