Sample Test Name: Aircraft Mechanics



(These items were developed by teachers for the Technical Skills Assessment. Below is a sample item for each program standard.)

Question 1 of 10				
	Which statement is TRUE when made in reference to a parallel circuit?			
	(A)	The current is equal in all portions of the circuit.		
	(B)	The current in amperes can be found by dividing the EMF in volts by the sum of the resistors in ohms.		
	(C)	The current is no greater than the smallest resistor.		
	(D)	The total current is equal to the sum of the currents through the individual branches of the circuit.		
	Ques	tion 2 of 10		
	Which statement describes the BEST use for schematic diagrams?			
	(A)	Displaying the visual details of individual components in a system		
	○ B)	Depicting a cross-sectional view of a given component		
	(C)	Troubleshooting system malfunctions		
	O D)	Showing the overall location of components in a system		
	Ques	tion 3 of 10		
		alance computation of an aircraft from which an item located aft of the datum was ed, what weight composition is used?		
	(A)	(+) weight X (+) arm (-) moment		
	○ B)	(-) weight X (+) arm (-) moment		
	(C)	(-) weight X (-) arm (+) moment		
	(D)	(+) weight X (-) arm (-) moment		

Question 4 of 10			
What is the color of an AN steel flared tube fitting?			
(A)	Black		
(B)	Blue		
(C)	Silver		
(D)	Red		
Ques	Question 5 of 10		
What h	nappens to a heat-treated metal when reheated with a welding torch?		
() A)	Reheating has no effect if the part is normalized after heating.		
○ B)	Reheating can significantly alter a metal's properties in the reheated area.		
(C)	Reheating has little or no effect on the metal's properties in the reheated area.		
O D)	Reheating has an enhancement effect on the metal's original heat treatment area.		
Question 6 of 10			
Whats	should be done FIRST when starting to move an aircraft when taxiing?		
(A)	Remove gear safety pins		
○ B)	Monitor the instruments		
(C)	Notify the control tower		
(D)	Test the brakes		
Ques	tion 7 of 10		
What i	s the effect of using caustic cleaning products on aluminum structures?		
() A)	Passive oxidation		
○ B)	Molecular breakdown		
(C)	Corrosion		
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Ques	tion 8 of 10		
What does the signature of an authorized person on the records for maintenance performed indicate when work on an aircraft has been completed satisfactorily?			
(A)	Verification that maintenance or alterations were performed using approved data		
(B)	Returning the aircraft to a serviceable condition		
(C)	Approval for return to service only for work performed		
(D)	Acceptable return to service if authorized person holds an inspection authorization		
Ques	tion 9 of 10		
What is	s the speed of the pinion gear with 14 teeth when driving a spur gear with 42 teeth at PM?		
(A)	420 RPM		
(B)	252 RPM		
(C)	588 RPM		
(D)	126 RPM		
Ques	tion 10 of 10		
When	using magnetic particle inspection, what conditions identify a part with a fatigue crack?		
(A)	Discontinuity is in a moderately stressed area		
○ B)	Discontinuity is found in a non-stressed area		
O C)	Discontinuity pattern is straight		
O D)	Discontinuity is found in a highly stressed area		

Aircraft Mechanics Sample Test Answer Key

Question	Answer	
1.	D	
2.	С	
3.	В	
4.	Α	
5.	В	
6.	D	
7.	С	
8.	С	
9.	Α	
10.	D	