

(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.

### Question 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
- D) Showing the overall location of components in a system

### Question 3 of 10

In a balance computation of an aircraft from which an item located aft of the datum was removed, 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?

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- A) Black
- B) Blue
- C) Silver
- D) Red

#### Question 5 of 10

What happens to a heat-treated metal when reheated with a welding torch?

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- 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.
- D) Reheating has an enhancement effect on the metal's original heat treatment area.

#### Question 6 of 10

What should be done FIRST when starting to move an aircraft when taxiing?

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- A) Remove gear safety pins
- B) Monitor the instruments
- C) Notify the control tower
- D) Test the brakes

#### Question 7 of 10

What is the effect of using caustic cleaning products on aluminum structures?

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- A) Passive oxidation
- B) Molecular breakdown
- C) Corrosion
- D) Improved corrosion resistance

### Question 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

### Question 9 of 10

What is the speed of the pinion gear with 14 teeth when driving a spur gear with 42 teeth at 140 RPM?

- A) 420 RPM
- B) 252 RPM
- C) 588 RPM
- D) 126 RPM

### Question 10 of 10

What is the maximum duration of a temporary airman certificate?

- A) 90 days
- B) 60 days
- C) 30 days
- D) 120 days

Aircraft Mechanics Sample Test Answer Key

<b>Question</b>	<b>Answer</b>
1.	D
2.	C
3.	B
4.	A
5.	B
6.	D
7.	C
8.	C
9.	A
10.	D