



(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**

What is the result if the reference datum line is placed at the nose of an aircraft rather than at the firewall or some other location aft of the nose?

- A) All measurement arms will be in negative numbers.
- B) All measurement arms will be in positive numbers.
- C) Measurement arms can be either positive or negative numbers depending on the manufacturer's preference.
- D) Measurements need to be adjusted by subtracting drainable engine oil weight.

#### 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

Which heat-treating operation is performed when the surface of the metal is changed chemically by introducing a high carbide or nitride content?

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- A) Normalizing
- B) Case hardening
- C) Tempering
- D) Quenching

#### Question 6 of 10

When starting to move an aircraft when taxiing, what should be done FIRST?

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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

Which solvent is used to clean acrylics and rubbers?

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- A) Methyl ethyl ketone
- B) Aromatic naphtha
- C) Aliphatic naphtha
- D) Toluene

### Question 8 of 10

When work on an aircraft has been completed satisfactorily, what does the signature of an authorized person, on the records for maintenance performed, indicate?

- 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

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

- 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