

**Sample Test Name:** Electronic Technologies



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

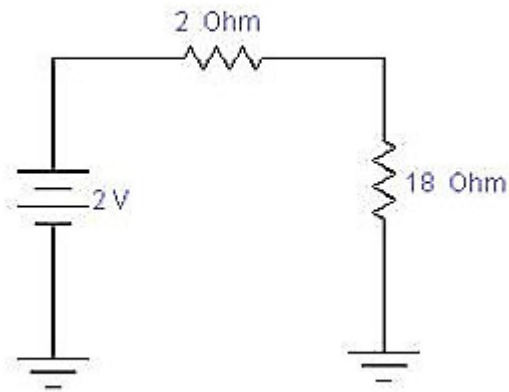
**Question 1 of 15**

How often should MOST portable fire extinguishers be inspected?

- A) Never
- B) Every year
- C) Every 2 months
- D) Every 2 years

### Question 2 of 15

What is the power of this circuit?



- A) 0.5W
- B) 10W
- C) 0.1W
- D) 50W

### Question 3 of 15

To test a circuit for amperage, how MUST the meter be connected?

- A) In reverse bias
- B) In series
- C) In forward bias
- D) In parallel

### Question 4 of 15

What does Electronic Computer-Aided Design (ECAD) software offer the user?

- A) Limits general drawings for assembly.
- B) To design and analyze his/her project.
- C) Limits the application to one design.
- D) To view the project in a mono dimension.

### Question 5 of 15

What is the unit of electron flow along a conductor?

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- A) Volt
- B) Watt
- C) Amp
- D) Ohm

### Question 6 of 15

What is the RMS value of a sine wave whose pk to pr value is 10 volts? ( $V_{pp} = 2.828$ )

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- A) 5 volts
- B) 7.07 volts
- C) 3.18 volts
- D) 3.53 volts

### Question 7 of 15

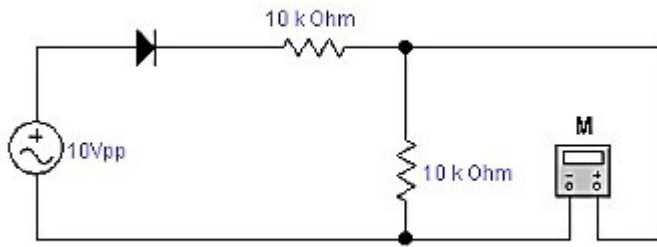
What does a material classified as "ferromagnetic" MOST likely contain?

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- A) Antimony
- B) Iron
- C) Aluminum
- D) Chromium

### Question 8 of 15

What is the RMS voltage measurement taken from the meter M? ( $V_{pp} = 2.828 \text{ RMS}$ )



- A) 5.2V
- B) 3.2V
- C) 7.1V
- D) 6.4V

### Question 9 of 15

Which statement is CORRECT concerning inductors?

- A) Oppose a change in voltage
- B) Oppose current
- C) Oppose a change in current
- D) Oppose voltage

### Question 10 of 15

What does it mean when there is NO smoothing capacitor present and DC output contains ripples at the line frequency?

- A) Filtered
- B) Regulated
- C) Unfiltered
- D) Unregulated

### Question 11 of 15

What is the twisting force of a motor called?

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- A) Torque
- B) Horsepower
- C) Slip speed
- D) Counter EMF

### Question 12 of 15

What is the simplest form of a power supply regulator?

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- A) Bridge Rectifier
- B) Zener Diode
- C) By-pass Capacitor
- D) Schottky Diode

### Question 13 of 15

What is the PRIMARY purpose of an oscillator circuit?

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- A) To generate an amperage
- B) To generate a signal
- C) To generate a varying resistance
- D) To generate a voltage

### Question 14 of 15

If an amplifier has a 3dB gain, how much is the power gain factor?

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- A) 10
- B) 2
- C) 3
- D) 6

### Question 15 of 15

What is the sequence needed for sending information over a serial bus?

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- A) Serial load the data in, then shift it out in parallel.
- B) Parallel load the data in, then parallel shift the data out.
- C) Parallel load the data in, then serial shift the data out.
- D) Serial load the data in, then parallel load the data out.

Electronic Technologies Sample Test Answer Key

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