



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

Question 1 of 15

What should be done BEFORE opening an unplugged electronic device?

- A) Check all electrical circuits and attach a magnet to the case.
- B) Wear an electrostatic wristband and connect it to ground.
- C) Place the plug back in the electrical socket.
- D) Place the multimeter leads on the electrical plug and take a reading.

Question 2 of 15

How much power is generated in 60 days if a 1/2 horsepower motor operates for 3 hours per day?

- A) 138 KWH
- B) 101 KWH
- C) 67 KWH
- D) 6 KWH

Question 3 of 15

What decides the POWER rating of a resistor?

- A) Shape
- B) Size
- C) Value
- D) Color

Question 4 of 15

What is a semiconductor device that has four layers of alternating P- and N-type materials?

- A) Transistor
- B) Thyristor
- C) Resistor
- D) Silicon controlled rectifier

Question 5 of 15

What metal is the BEST conductor?

- A) Copper
- B) Aluminum
- C) Silver
- D) Steel

Question 6 of 15

What is a PRIMARY characteristic of AC (alternating current) voltage?

- A) Flows in only one direction
- B) Is steady or varied in amplitude
- C) Is used as a transistor amplifier terminal voltage
- D) Reverses in polarity

Question 7 of 15

What is the name of the magnetic effect of one conductor on another when there is no physical contact?

- A) Hysteresis
- B) Induction
- C) Magnetism
- D) Permeability

Question 8 of 15

What is the applied voltage in a 20 Vac series if 20 V is read across the resistor and 40 V is measured across the capacitor?

- A) 35 Vac
- B) 45 Vac
- C) 55 Vac
- D) 65 Vac

Question 9 of 15

How is electrical energy transferred in a transformer created?

- A) Changes the distribution
- B) Changes DC to AC
- C) Changes magnetic field
- D) Changes length of cable

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

Which motor is NOT a three-phase motor?

- A) Series motor
- B) Induction motor
- C) Wound rotor motor
- D) Synchronous motor

Question 12 of 15

In a conventional laptop charger, what component is critical for transforming AC to DC?

- A) Multiplier
- B) Diode
- C) Battery
- D) Converter

Question 13 of 15

What is the PRIMARY purpose of an oscillator circuit?

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

Question 14 of 15

If an amplifier has a 10dB gain, how much is the power gain factor?

- A) Five
- B) Ten
- C) Thirty
- D) Twenty

Question 15 of 15

What MUST happen to a signal for it to be transmitted by radio waves?

- A) It must be demodulated.
- B) It must be filtered.
- C) It must be modulated.
- D) It must be unfiltered.

Electronic Technologies Answer Key

Question	Answer
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