

## FROM UNIT 3 TO UNIT 7

### Assignment



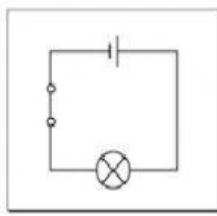
#### 1. Choose the correct options to complete this extract about external evaluation. (unit 3)

When an electronic device malfunctions, \_\_\_\_\_ the external parts first. If you don't hear a hiss or a hum, it is probably \_\_\_\_\_. So, the problem is the power supply. Check if there are scrambled words on the \_\_\_\_\_. In that case, the chip is broken.

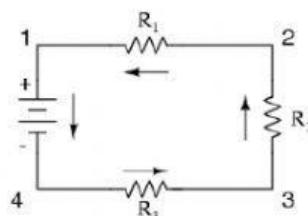
You can \_\_\_\_\_ on the device to see if the problem is bad connection. Also, check if it stops working after it \_\_\_\_\_ up. If the \_\_\_\_\_ control doesn't work. You may need to replace it.

#### 2. Drag and drop the correct words below each picture. (unit 4)

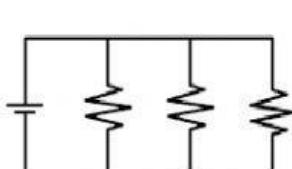
OPEN CIRCUIT



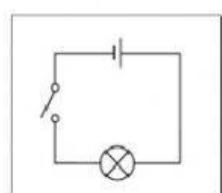
IN PARALLEL



CLOSED CIRCUIT



IN SERIES



#### 3. Match the words with the definitions. (Unit 4)

1. Closed	a. stopping current from travelling from one end of the power source to the other.
2. In parallel	b. when current has to pass through one circuit component before it can pass through any others.
3. In series	c. allowing current to travel from one end of the power source to the other.
4. Open	d. when several components are connected across the power source's two terminals.

#### 4. Complete this extract about signals. (Unit 5)

Digital signals are based on \_\_\_\_\_ code. They are easier to \_\_\_\_\_ and store than \_\_\_\_\_. signals. That is why some people prefer digital signals.

#### 5. Complete these definitions with the words in the box. (Unit 5)

vertical    straight    angled    smooth

Sine waves - form a/an \_\_\_\_\_, flowing line.



Sawtooth waves - are made up of \_\_\_\_\_ and straight, vertical lines.



Square waves - have \_\_\_\_\_, \_\_\_\_\_, and horizontal lines.



**6. Reread the text about capacitors and mark the sentences true or false. (Unit 6)**

1. Ceramic capacitors are typically used for coupling and bypass applications. \_\_\_\_\_
2. Plastic (mylar) capacitors have a coating that keeps out water. \_\_\_\_\_
3. Electrolytic capacitors can't be used in laptops. \_\_\_\_\_

**7. Reread the text about crystals and resonators and complete this sentence. The information is in the first paragraph. (Unit 7)**

A **crystal** consists of a slice of **quartz** sandwiched between a pair of electrode plates **encased** in a metal covering. It has two **leads** protruding out from underneath it. A ceramic **resonator** has a similar basic structure, but with important differences. A **ceramic slab** is found between the two electrode plates. It is covered in plastic and has two or three leads.

## [ Crystals and Resonators ]

Quartz and ceramic, like some other materials, will **vibrate** when electricity is applied to them. Conversely, they will **generate** electricity when mechanical pressure is applied. This is called the **piezoelectric effect**. Both quartz crystals and ceramic resonators are found in many electronic devices. They are used in frequency generators, timing circuits, and **filters**. They are found in TVs, VCRs, and computers. Quartz crystals are more accurate and stable. Ceramic resonators are generally smaller, cheaper, and used when accuracy is not as important.

A cristal has \_\_\_\_\_ leads while a resonator can have \_\_\_\_\_ or \_\_\_\_\_.

**8. Complete the conversation with the phrases given.**

Thanks.

The clock on my DVD player doesn't work.

How long will it take?

Is that serious?

A: Hi, what can I do for you?

B: \_\_\_\_\_

A: My guess is that a crystal inside is damaged.

B: \_\_\_\_\_

A: Don't worry, I can fix it. I'll open it up and replace the broken crystal with a new one.

B: Oh, good. \_\_\_\_\_

A: I'll have it working good as new by tomorrow morning.

B: Great. \_\_\_\_\_