202: Principles of electrical science  
**Worksheet 18: Electronic components**

**Answer guide**

Using your notes answer the following questions.

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| 1. | What is the purpose of the thyristor in the alarm circuit? |
|  | The thyristor when turned on operates the sounder. It also provides the latching facility so that it will remain switched on until the power is removed. |

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| 2. | What is the purpose of the capacitor in the telephone socket? |
|  | It forms part of the ringer circuit. |

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| 3. | What is the purpose of the bridge rectifier in the motor control circuit? |
|  | It converts the a.c. output of the transformer in to d.c. |

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| 4. | In the thermostat what is the purpose of the thermistor? |
|  | It detects the temperature and by varying it’s resistance it turns the heating appliances on or off depending on the temperature. |

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| 5. | In the dimmer switch what is the purpose of the diac? |
|  | It provides the trigger for the triac. |