

# Electric Circuits & Electrical Safety

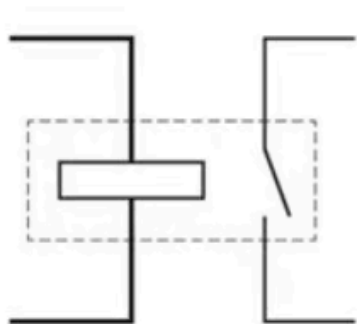
## Question Paper

|            |                                       |
|------------|---------------------------------------|
| Course     | CIE IGCSE Physics                     |
| Section    | 4. Electricity & Magnetism            |
| Topic      | Electric Circuits & Electrical Safety |
| Difficulty | Easy                                  |

|              |      |
|--------------|------|
| Time Allowed | 10   |
| Score        | /5   |
| Percentage   | /100 |

### Question 1

This is the circuit symbol for which component?

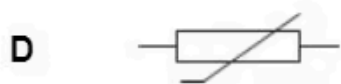
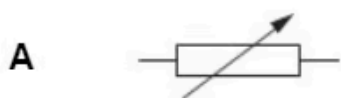


- A. A fuse
- B. A buzzer
- C. A transistor
- D. A relay

[1 mark]

**Question 2**

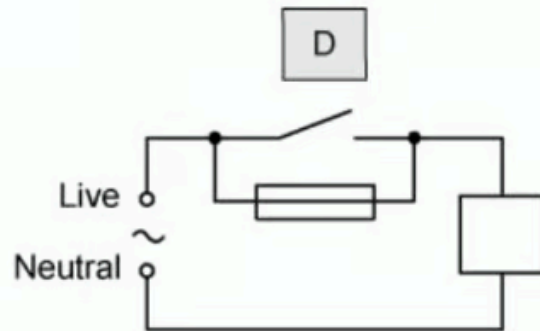
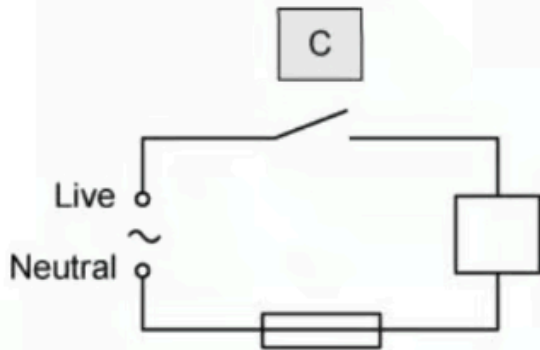
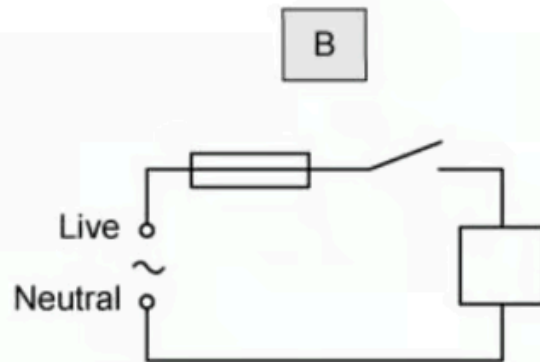
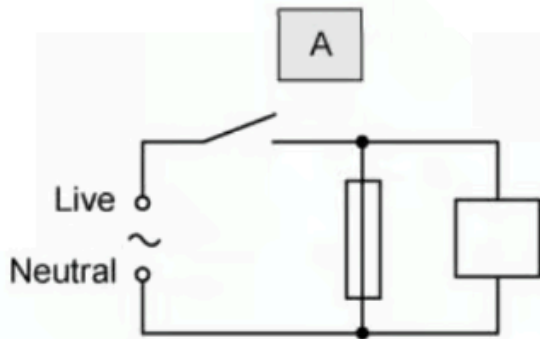
Which of the following circuit symbols is for a thermistor?



[1 mark]

### Question 3

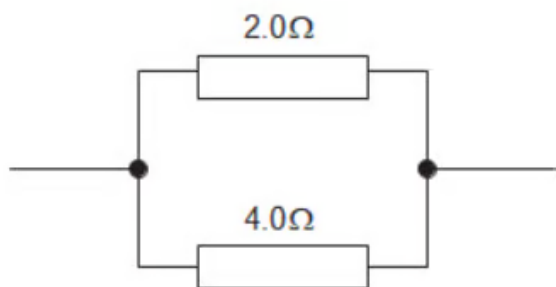
Which of the circuit diagrams above shows a fuse which has been correctly connected?



[1 mark]

**Question 4**

The diagram shows two resistors connected in parallel.



The total resistance of this combination will be:

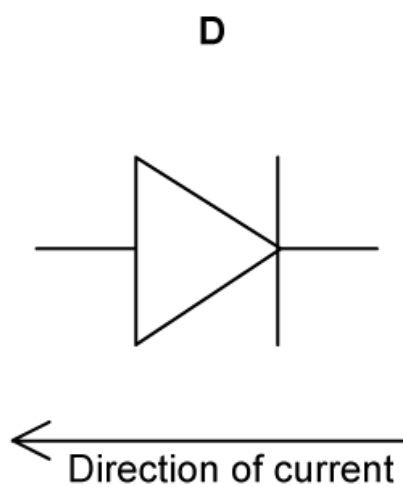
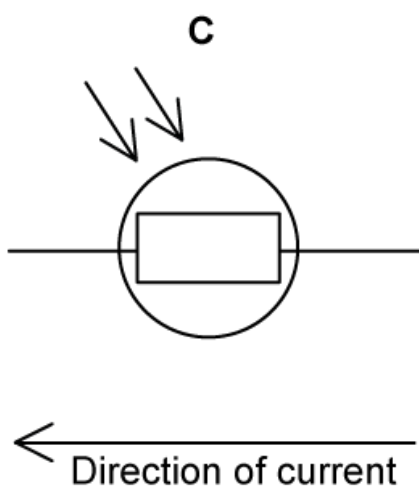
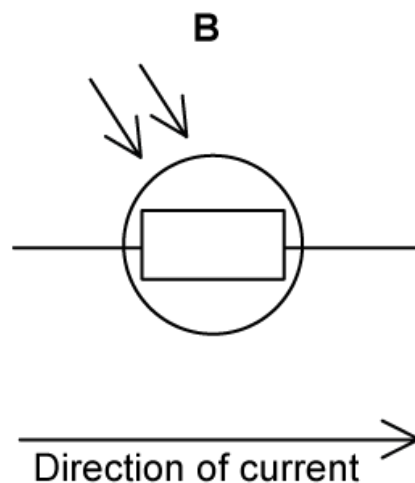
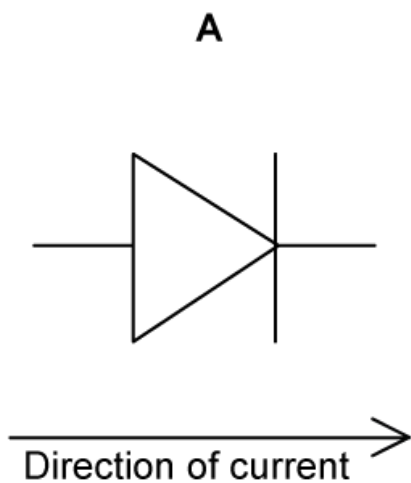
- A.** The sum of  $2.0\,\Omega$  and  $4.0\,\Omega$
- B.** Greater than  $4.0\,\Omega$
- C.** Between  $2.0\,\Omega$  and  $4.0\,\Omega$
- D.** Less than  $2.0\,\Omega$

[1 mark]

## Question 5

### Extended tier only

Which diagram shows the correct symbol for a diode, and the correct direction of current moving through it?



[1 mark]



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