

GCSE

**Science (Modular)
Double Award and Physics**

Module 10

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Electricity: Foundation Tier

| Question No. | KEY |
|--------------|--|
| One | 1 – lamp 2 – fuse 3 – thermistor 4 – variable resistor |
| Two | 1 – brown 2 – white 3 – blue 4 – green and yellow |
| Three | 1 – provides a potential difference (voltage) 2 – safety device which uses an electromagnet 3 – melts when the current gets too large 4 – changes the voltage of an a.c. supply |
| Four | 1 – increased 2 – decreased 3 – reversed 4 – the same |
| Five | 1 – M 2 – L 3 – K 4 – J |
| Six | Q R |
| Seven | A has the same frequency as C B has the same peak voltage as A |
| Eight | 8.1 – A, 8.2 – A, 8.3 – A, 8.4 – B |
| Nine | 9.1 – D, 9.2 – C, 9.3 – C, 9.4 – C |
| Ten | 10.1 – C, 10.2 – B, 10.3 – B, 10.4 – B |

Electricity: Higher Tier

| Question No. | KEY |
|--------------|---|
| One | 1 – M 2 – L 3 – K 4 – J |
| Two | 1 – R 2 – P 3 – S 4 – Q |
| Three | A has the same frequency as C B has the same peak voltage as A |
| Four | the brushes change a.c. to d.c. when the coil spins faster the frequency of the a.c. generated decreases |
| Five | 5.1 – A, 5.2 – A, 5.3 – A, 5.4 – B |
| Six | 6.1 – D, 6.2 – C, 6.3 – C, 6.4 – C |
| Seven | 7.1 – C, 7.2 – B, 7.3 – B, 7.4 – B |
| Eight | 8.1 – D, 8.2 – C, 8.3 – A, 8.4 – A |
| Nine | 9.1 – A, 9.2 – D, 9.3 – B, 9.4 – D |
| Ten | 10.1 – D, 10.2 – C, 10.3 – A, 10.4 – C |