

- 1 Kirchhoff's Laws can be used to analyse electrical circuits.
Which of the following statement/s is/are correct?

1. Kirchhoff's First Law is based on the conservation of energy.
2. Kirchhoff's Second Law states that the sum of the e.m.f. in any loop is equal to the sum of potential differences in the same loop.
3. The algebraic sum of currents at any node in a circuit is equal to zero.

- A** 1, 2, 3 are correct.
B Only 2 is correct.
C Only 2 and 3 are correct.
D Only 1 and 3 are correct.

(1 mark)

- 2 This question is about components connected in a circuit in series and parallel.
a Figure 2.1 shows an electrical circuit. The resistors and the diode are connected to a power supply of negligible internal resistance.

$$\begin{aligned} R_1 &= 300\ \Omega \\ R_2 &= 330\ \Omega \\ R_3 &= 100\ \Omega \end{aligned}$$



Figure 2.1

- i Use Figure 2.1 to state the potential difference between points B and C when the diode is in forward bias.

(1 mark)

- ii Calculate the potential difference between points A and B when the diode is working as in part i.

(1 mark)

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