1 Kirchhoff's Laws can be used to analyse electrical circuits.

Which of the following statement's is/are correct?

- Kirchhoff's First Law is based on the conservation of energy.
- 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.
- 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.

(7 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.

R1 = 300 Ω R2 = 330 Ω R3 = 100 Ω

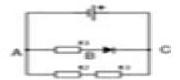


Figure 2.1

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

(7 mark)

El Calculate the potential difference between points A and B when the diode is working as in part I.

(1 mark)

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