

[2 marks]

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An alternator is being used to power a filament bulb, as shown below.



Explain the function of the slip rings in the above alternator, and how they allow for an alternating current to be supplied to the bulb.

## [2 marks]



The potential difference across the bulb varies with time as shown below.

Show that the coil is rotating at a frequency of 10 Hz.

## [2 marks]

02.3

On the above axes, sketch the graph which would have been obtained had the coil been rotated at a frequency of **20 Hz**.

## [2 marks]

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