

0 2

Table 1 shows results of an experiment to investigate how the de Broglie wavelength λ of an electron varies with its velocity v .

Table 1

$v / 10^7 \text{ m s}^{-1}$	$\lambda / 10^{-11} \text{ m}$
1.5	4.9
2.5	2.9
3.5	2.1

0 2 - 1

Show that the data in Table 1 are consistent with the relationship $\lambda \propto \frac{1}{v}$

[2 marks]

0 2 - 2

Calculate a value for the Planck constant suggested by the data in Table 1.

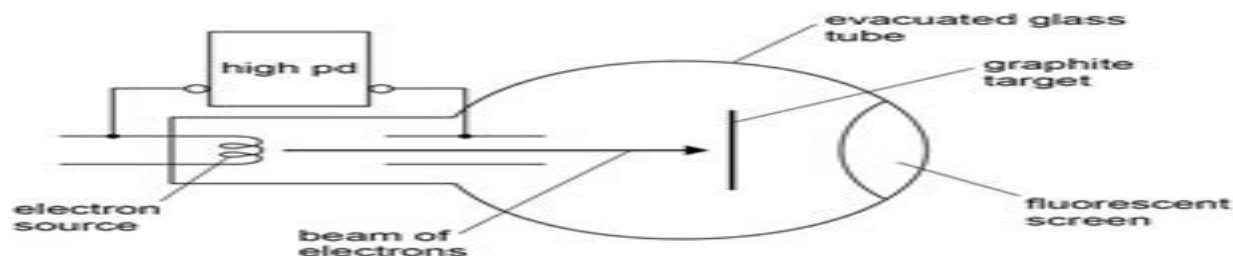
[2 marks]

0 2 - 3

Figure 2 shows the side view of an electron diffraction tube used to demonstrate the wave properties of an electron.

Figure 2

Side view

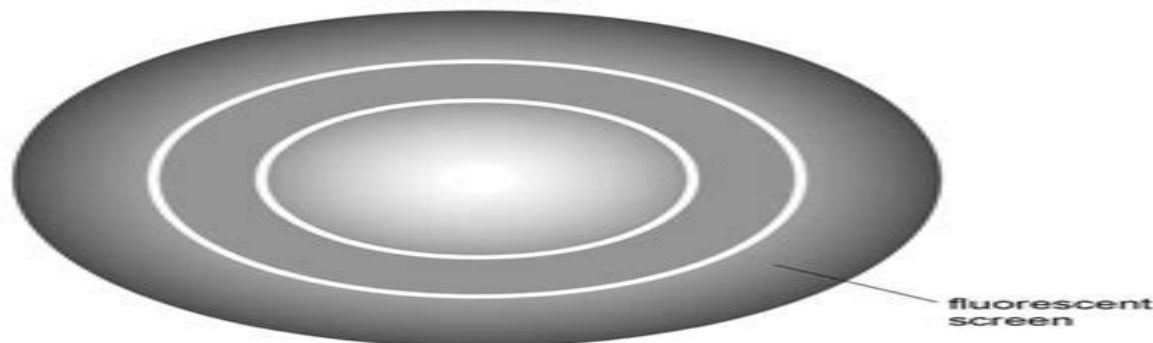


An electron beam is incident on a thin graphite target that behaves like the slits in a diffraction grating experiment. After passing through the graphite target the electrons strike a fluorescent screen.

Figure 3 shows the appearance of the fluorescent screen when the electrons are incident on it.

Figure 3

Front view



Explain how the pattern produced on the screen supports the idea that the electron beam is behaving as a wave rather than as a stream of particles.

[3 marks]

0 2 - 4

Explain how the emission of light from the fluorescent screen shows that the electrons incident on it are behaving as particles.

[3 marks]

Isa Aqa Diffraction

Anthony S. Fauci



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