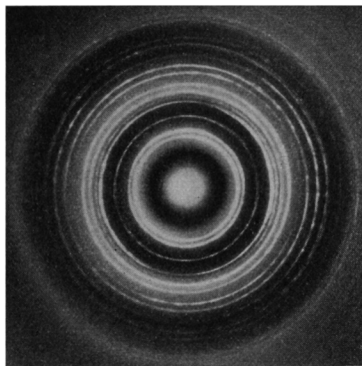


## SECTION B

**Answer ALL questions in the spaces provided.**

- 11** A beam of electrons is directed at a thin metal foil. After passing through the foil the electrons are detected by a fluorescent screen.

The image shows the pattern produced on the fluorescent screen.



(Source: © Reading Room 2020/Alamy Stock Photo)

Explain how the pattern produced on the screen is evidence for wave behaviour, rather than particle behaviour of the electrons.

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**(Total for Question 11 = 3 marks)**