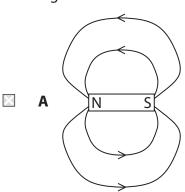
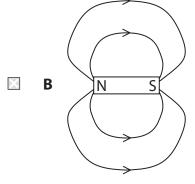
(1)

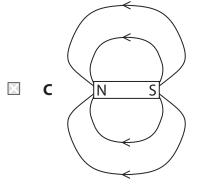
Answer ALL questions.

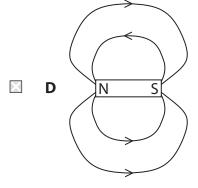
Some questions must be answered with a cross in a box \boxtimes . If you change your mind about an answer, put a line through the box \boxtimes and then mark your new answer with a cross \boxtimes .

- 1 The region of space around a magnet is known as a magnetic field.
 - (a) Which of these diagrams correctly represents the magnetic field around a bar magnet?











(b) The diagram shows two bar magnets placed close together.

N S

N S

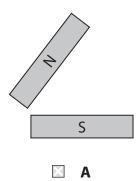
(i) Which of these describes what happens to the two magnets?

(1)

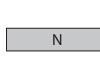
- A nothing happens
- B they attract
- C they repel
- D they spin

(ii) Which of these magnet arrangements gives a uniform field between the poles?







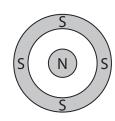














(c) State the name of a material that would be suitable for use as a permanent magnet.

(1)



(d) Describe an investigation that could be used to determine the shape of the magnetic field around a bar magnet.	(3)
(Total for Question 1 = 7	7 marks)