

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

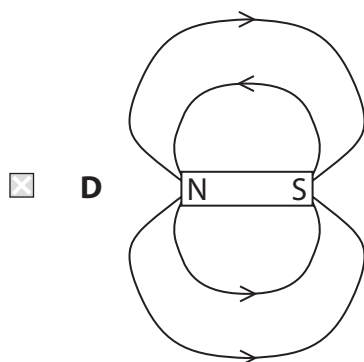
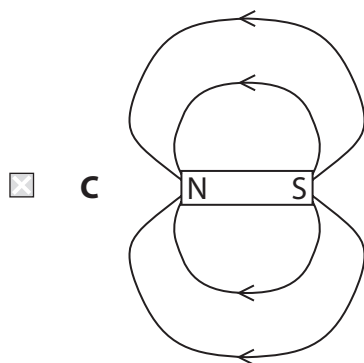
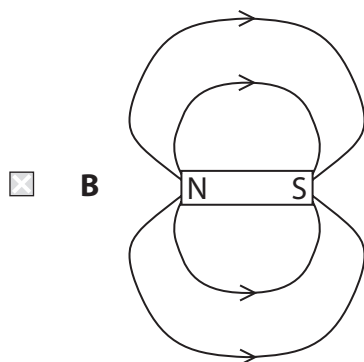
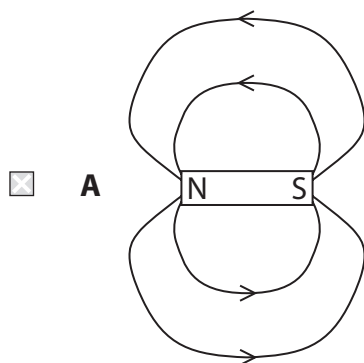
Answer ALL questions.

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

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?

(1)



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



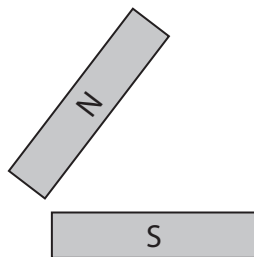
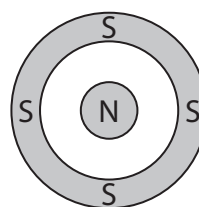
(i) Which of these describes what happens to the two magnets?

(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?

(1)

☐ A☐ B☐ C☐ D

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

(1)



P 7 0 7 0 5 A 0 5 3 6

- (d) Describe an investigation that could be used to determine the shape of the magnetic field around a bar magnet.

(3)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

(Total for Question 1 = 7 marks)



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

BLANK PAGE

