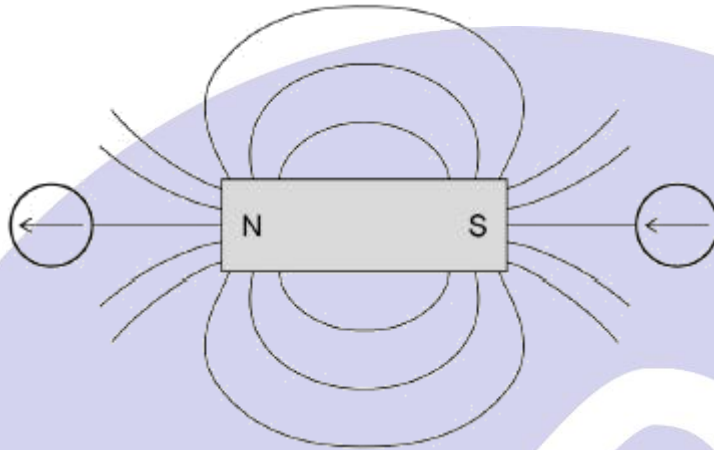


Mark schemes

Q1.

(b)



2 arrows pointing left

allow 1 mark for 1 correct arrow

(c) A

(d) S-S

2

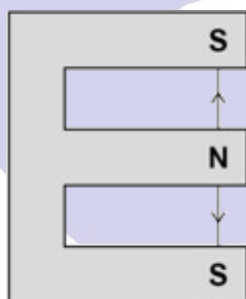
1

1

[9]

Q2.

(a)



1

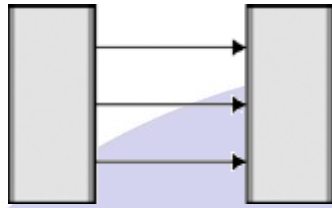
[1]

Q3.

- (a) (i) field pattern shows:
some straight lines in the gap

1

direction N to S



1

[2]

Q4.

- (b) the magnetic field gets weaker further from the magnet

1

the magnetic field is strongest at the poles

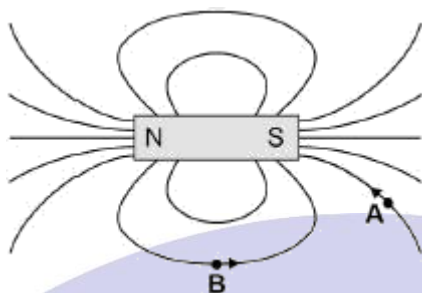
1

[2]



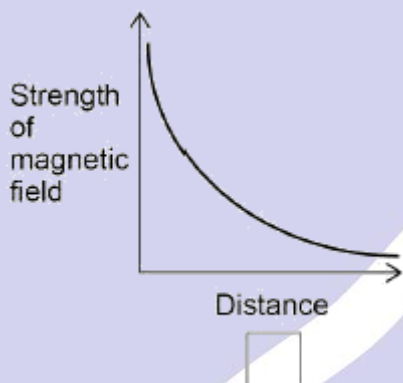
Q5.

- (a) both arrows correct



1

- (b) third box ticked



1

any **one** from

- (the only graph) that shows the magnetic field getting weaker (as distance increases)
- both other graphs show the magnetic field getting stronger (as the distance increases)

only scores if correct box is chosen

1

[3]

Q6.

- (a) both arrows pointing horizontally and to the right
judged by eye

1

[1]