Question number	Answer	Notes	Marks
3 (a)	(to the) left; (because) repulsion (due to like magnetic poles);	allow towards A, away from B ignore backwards reject if mention of charge	2
(b) (i)	0.045 (kg m/s);	allow 'the same'	1
(ii)	momentum of B after collision = 0.045 – (-0.021); evaluation; e.g. 0.0450.021 (momentum =) 0.066 (kg m/s)	allow 0.024 for 1 mark allow 0.045 + 0.021	2
(iii)	substitution into F = change in momentum / time taken; evaluation; e.g. F = 0.066 / 0.19 (F =) 0.35 (N)	allow ECF from (ii) use of 0.024 from (ii) gives 0.126 (N) allow 0.347 (N)	2
(iv)	(to the) right;	allow towards B, away from A	1

(Total for Question 3 = 8 marks)