Question number	Answer	Notes	Marks
5 (a)	D		2
	parallel field (DOP)	ACCEPT equally spaced and straight / equally spaced and do not change direction	
(b)	two (permanent / bar) magnets	ACCEPT points made on an annotated diagram	3
	pole pieces arranged correctly e.g. North facing South	REJECT description of poles as positive / negative	
	idea of magnets being the correct distance apart	ACCEPT “close together”, “not touching” ACCEPT idea that field is produced in the space between the N pole of one magnet and the S pole of the other REJECT answers that are clearly referring to electromagnets	

Question number	Answer	Notes	Marks
7 (c)	ANY 5 relevant points, e.g. Explanation of what reaction time is; Reaction time affects readings / reaction time does matter; Reaction times vary; Reaction times do not cancel out; Reaction time should be considered / allowed for; Kefe is right (about reaction times); reaction time typically at least 0.1 s; which is large compared to measured times / large % error; time should only be to 1 s.f.; so final value should also be to 1 s.f. / Kefe's value more suitable; 3 s.f. inappropriate; closer to accepted value does not mean more accurate;	Answers should ideally relate to how *appropriate* the precision of the measurements was, linking this to the number of significant figures merited Consideration of reaction time and its measurement may score a number of marks	MAX 5