Practice Question Set For GCSE

Subject: Physics



Paper-2 Topic: GCSE Triple Science_Magnetism And Electromagnetism(LDQ)

Name o		
Max. M Mark So	Time : 17 Minutes	
IVIAIR S	crientes	
Q1.		
(a)	induced	1
(b)	bar 2	1
	(the same end) of bar 1 attracts both ends of bar 2	
	or	
	only two magnets can repel so cannot be bar 1 or bar 3	1
(c)	so the results for each magnet can be compared	
	or	
	so there is only one independent variable fair test is insufficient allow different thickness of paper would affect number of shee magnet could hold accept it is a control variable	ets each 1
(d)	because the magnet with the biggest area was not the strongest accept any correct reason that confirms the hypothesis is wrong smallest magnet holds more sheets than the largest	ng eg 1 [5]
Q2. (a)	field correct order only	1
	current	1
	force accept motion accept thrust	1

(b)	(i)	arrow pointing vertically downwards	1	
	(ii)	increase current / p.d. accept voltage for p.d.	1	
		increase strength of magnetic field accept move poles closer together	1	
	(iii)	reverse (poles of) magnets	1	
		reverse battery / current	1	
(c)	(i)	1.5 or 150% efficiency = 120 / 80 (× 100) gains 1 mark an answer of 1.5 % or 150 gains 1 mark	2	
	(ii)	efficiency greater than 100% or output is greater than input or output should be 40 (W)	1	
	(iii)	recorded time much shorter than actual time accept timer started too late accept timer stopped too soon	1	[12]