Practice Question Set For GCSE

Subject: Physics



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

	the Student:rks : 20 Marks	 Time : 20 Minute:			
lark Schemes					
Q1.					
(a)	there is a magnetic field (around the magnet)	1			
	(this magnetic field) changes / moves	1			
	and cuts through coil				
	accept links with coil	1			
	so a p.d. <u>induced</u> across coil	1			
	the coil forms a complete circuit	1			
	so a current (is induced)	1			
(b)	ammeter reading does not change				
	must be in this order accept ammeter has a small reading / shows a current				
	decopt animotor ride a small reduing / snews a surront	1			
	zero	1			
	greater than before				
	accept a large(r) reading	1			
	same as originally but in the opposite direction				
	accept a small reading in the opposite direction	1			
(c)	0.30				
	allow 1 mark for correct substitution, ie 0.05 = Q / 6	2			
	C / coulomb				
	allow A s	1 [13]			

(a)	(i)	increase	1	
	(ii)	A and B and B and C both required for the mark either order	1	
	(iii)	(iii) any two from:		
		 size of nail or nail material allow (same) nail current allow (same) cell allow p.d. same amount of electricity is insufficient (size of) paper clip length of wire accept type / thickness of wire 	2	
(b)	4		1	
	as A or	cks up the same number as C, so this electromagnet would pick up the same number action of current does not affect the strength of the electromagnet allow it has got the same number of turns as A	1	
(c)	2	allow 1 or 3	1	[7]