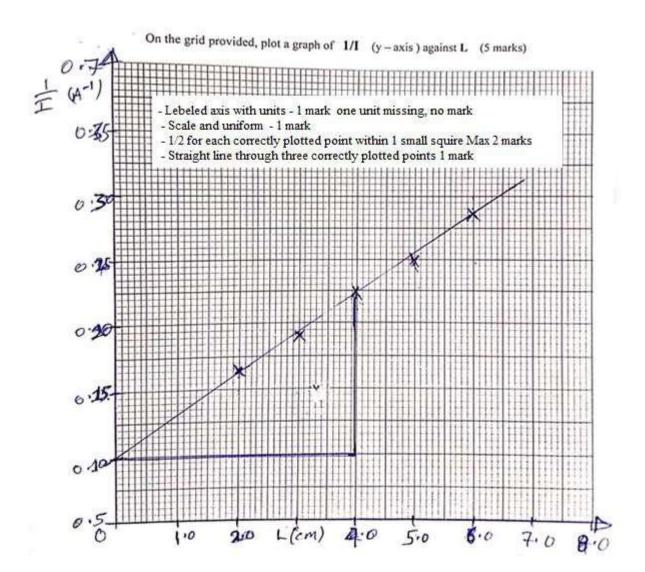
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- Two dry cells
- A cell holder
- A switch
- An ammeter
- A voltmeter
- Six Connecting wires, two with crocodile clips.
- Nichrome wire mounted on a meter rule, labeled X
- A michrometer screw gauge

		MARKING POINT					
E = 3.0 + - 0.2		-1 Mark					
d) Allow +/- 0.04 fe	or value						
Length (m)	0.2	0.3	0.4	0.5	0.6	0.7	-For current1 mark each, must be
Current (A)	0.60	0.52	0.44	0.40	0.35	0.29	within range Max 5 marks 2dp a
1/I (A ⁻¹)	1.67	1.92	2.27	2.50	2.85	3.44	must
							- For 1/I, all correct for 1 mark.
e) On grid attach	ed.	As per graph 5 mks					
f) -Interval (From	n stude	1 Mark					
-Evaluation		1 mark for eval.					
- Answer with u	inits. S	1 mark 2 d.p					
g) i) - All values	of d inc	mm 1 Mark					
ii) – Determina	tion of a	1 mark					
h) i) - implying K/	'AE = S	1 mark					
- determining	K	1 mark					
ii) determination	on of Q	1 mark					
		20 MARKS					





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- A meter rule
- 3 optical pins
- 2 small wooden blocks
- A stop watch
- A stand, boss and a clampSome 6 pieces of Cello tape (4 cm)

	•	WORKI	MARKING POINT				
c) Allow range	of +/- 0.1	for val					
Distance X (cm)	10	15	20	25	30	35	
Time t (s)	19.77	17.19	16.03	15.61	15.50	15.86	
T (s)	CORREC	T EVALU	ATION	-For values of t, ½ max 3 marks			
T ² . (s ²)	CORREC	T EVALU	ATION		-Correct eval. For T, all 1 mark 3dp		
T ² X (s ² cm.)	CORREC	T EVALU	ATION		-Correct eval. For T ² all 1 mark 4dp		
X ² . (cm ²)	CORREC	T FVALU	ATION		-Correct eval. For T ² X all 1 mark 2dp		
X ² . (cm ²) CORRECT EVALUATION							-Correct eval. For X ² all 1 mark
							NOTE: Mark last three rows
							accordingly even if values of t are
							wrong
d) On grid atta	ched.			As per graph 5 mks			
e) Interval (Fre	om stud	ents' gra	1 Mark				
Evaluation				1 mark for eval.			
Answer with	NO uni	ts. $S = ($		1 mark 2 d.p			
f) substitution	1			1 Mark of S and W			
Evaluation	of q		1 Mark				
Ans. (9	0.0 - 10.0))	1 mark 1 d.p a must				
g) substitutio	on of Y- i	ntercept	1 mark				
Evaluation	of p		1 mark 2dp a must.				
		TOTA	20 MARKS				



