Practice Question Set For GCSE

Subject: Physics

Paper-2 Topic :10_Electricity And Circuits



Name of the Student:	

Max. Marks: 15 Marks

Time: 15 Minutes

Mark Schemes

Q1.

Answer	Acceptable answers	Mark
substitute (1 3 = I × 12 transformati I = 3 ÷ 12 e (1) 0 .25 (A) Ig unit given by candidate	either order 1 mark only can be scored for correct substitution after incorrect	(3)

Q2.

Question Number:	Answer	Additional guidance	Mark
(i)	substitution (1) (P)= 0.12 x 0.24 evaluation (1) 0.029 (W)	accept 0.03 (W), 0.0288(W) 0.028 (W) power of ten error is awarded 1 mark award full marks for the correct answer without working	(2) AO 2 1

Question Number:	Answer	Additional guidance		ver Additional guidance		r Additional guidance I		Additional guidance Mark	
(ii)	chooses /uses (1) E= V x I x t	E =0.3 x0.13 x35	(2) AO 2 1						
	evaluation (1) 1.4 (J)	accept an answer that rounds to 1.4 (J) e.g. 1.365(J)							
		a maximum of 1 mark is awarded in the case of a power of ten error							
		award full marks for the correct answer without working							

Question Number:	Answer	Additional guidance	Mark
(iii)	substitution (1) (Q)=0.13 x 35		(2) AO 2 1
	evaluation (1) 4.6 (C)	accept an answer that rounds to 4.6 e.g. 4.55 or in this context allow 4.5	
		power of ten error is awarded 1 mark	
		award full marks for the correct answer without working	

Q3.

	Answer	Acceptable answers	Mark
(i)	connected in parallel with lamp (1)	recognisable symbol such as a box with letter V inside or box with the word voltmeter inside it accept voltmeter across both lamp and ammeter	(1)
(ii)	Substitution $R = 6.0 /$ $0.26 (1)$ Evaluation $=$ $23 (1)$	An answer which rounds to 23 Give full marks for correct answer no working	(2)

Question number	Answer		Additional guidance	Mark	
	part of plug cable grip earth wire fuse live wire neutral wire	safety feature	Note that the tick next to cable grip is already in the grid more than two additional ticks deduct one mark for each incorrect tick.	(2)	

Q5.

Answer	Acceptable answers	Mark
D a variable resistor		(1)