Practice Question Set For GCSE
Subject : Physics
Paper-2 Topic :10_Electricity And Circuits

Merit Minds
www.merit-minds.com
Exam Preparation and Free Resources

Name of the Student:_____
Max. Marks : 17 Marks **Time : 17 Minutes**

Mark Schemes

Q1.

Question number	Answer	Mark
	C ammeter in series with component, voltmeter in parallel Only option C is correct for both the ammeter and the voltmeter	(1) AO1

Q2.

Question number	Answer	Mark
	A electrons	(1)

Q3.

Question number	Answer	Mark
	D protons and neutrons	(1)

Downloaded from www.merit-minds.com

Q4.

Question	Answer	Mark
	The only correct answer is B ***A, C*** *and* ***D*** *are not correct because they do not add up to the current entering the junction AND they do not equal the current coming from the battery*	**(1)** **AO1.1**

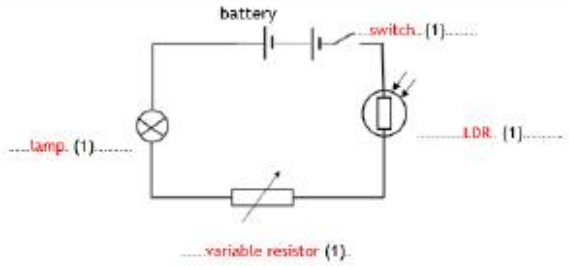
Q5.

Question number	Answer	Additional guidance	Mark
(i)	**B** electrons A C and D are incorrect because they do not move through a conductor to create an electric current.		**(1)** **AO1**

Question number	Answer	Additional guidance	Mark
(ii)	substitution (1) (charge =) 0.21 x 300 evaluation (1) (charge =) 63 unit (1) coulombs	 award full marks for the correct answer without working independent mark C(oulombs) c As	**(3)** **AO2** **AO1**

Downloaded from www.merit-minds.com

Q6.

Question	Answer	Additional guidance	Mark
		**accept** lines drawn from the words in the box to the spaces **accept** bulb for lamp	**(4)** **AO1.1**

Q7.

Question number	Answer	Mark
	C 50 Hz A, B and D are all distracting numbers not matching the frequency of the mains	**(1)** **AO1**

Q8.

Question number	Answer	Additional guidance	Mark
i	A an ammeter B, C and D are incorrect because they do not show current		**(1)**

Downloaded from www.merit-minds.com

Question number	Answer	Additional guidance	Mark
ii	substitution (1) (Q) = 2.5 x 8 (x60) evaluation (1) 1200 (C)	 allow 20 (C) for 1 mark award full marks for the correct answer without working	(2)

Q9.

Question number	Answer	Mark
	D variable resistor Options A, B and C are all wrong identifications with both the circuit components shown	(1) AO1

Downloaded from www.merit-minds.com