Practice Question Set For GCSE

Subject: Physics

Paper-1 Topic: GCSE Triple Science_Electricity (High Demand Questions)

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| Name of the Student: | |
|----------------------|------------------|
| Max. Marks: 23 Marks | Time: 23 Minutes |

Mark Schemes

Q1.

(a) (i) 13A

for 1 mark

1

(ii) fuse heated melts owtte / blows / burns out **Not** explodes / burns circuit breaks

any 2 for 1 mark each

2

(b) (i) $2750 \times 6 \text{ or } 2.75 \times 6$ gains 1 mark

but

16.5

gains 2 marks

2

(ii) $2750 \times 6 \times 7$ or $2.75 \times 6 \times 7$ or (b)(i) $\times 7$ or kW h \times cost / kW h gains 1 mark

but

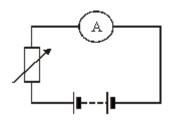
115p or 116p or 115.5p or £1.16 or £1.15 gains 2 marks

2

[7]

Q2.

(a)



3

one mark for each symbol allow more than 2 cells joined

max. 2 marks if symbols incorrectly allow rheostat arrow in either direction

(b) current will decrease 1 since resistance greater [5] Q3. power ÷ voltage = current or (a) (i) $2800 \div 240 = 11.6 - 11.7$ or 12 2 marks for correct answer 1 mark for 2.8 ÷ 240 2 (ii) resistance = voltage ÷ current $240 \div 11.7$ (efc here) 1 20.5 or 20.57 or 20.6 or 21 2 marks for correct answer 1 ohms or Ω do not credit R 1 (b) $850 \div 1500 \times 100$ marks only available for division of power 1 = 56.72 marks for correct answer for 1 mark accept 5670 1 [7] Q4. (a) changes the sound wave(s) to a varying or changing (electric) potential difference or p.d. or voltage or current or to an irregular alternating current or a.c. or transfers sound energy to electrical energy (1) mark is vibrations or pulses or of sound or in air become electrical waves do not credit just 'to electricity' or 'to a.c' 2 (b) (i) decrease or reduce the amplitude accept less amplitude nothing else added (ii) increase the frequency or decrease wavelength accept higher frequency nothing else added 1 [4]