Practice Question Set For GCSE
Subject : Physics
Paper-1 Topic: GCSE Triple Science_Electricity (Low Demand Questions)

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

Mark Schemes

Q1.

(a) M

1

(b)

or

1

(c) *an answer of 0.8 (A) scores **2** marks*

$$\text{current} = \frac{24}{30}$$

1

current = 0.80 (A)

1

(d) *an answer of 216 (J) scores **2** marks*

E = 60 × 3.6

1

E = 216 (J)

1

(e) The reading in **Y** would be lower

1

(f) The total resistance of **Y** is greater

1

(g) potential difference = current × resistance
or
V = IR

1

(h) *an answer of 4.5 (Ω) scores **3** marks*

$3.6 = 0.80 \times R$

1

$$R = \frac{3.6}{0.80}$$

1

$R = 4.5\ (\Omega)$

1

[12]

Q2.

(a) 0.08 (s)

1

(b) the current goes higher than normal value

allow the current goes (too) high

or

the current goes higher than 1.5 A

1

(c) $P = 1.5 \times 24$

1

$P = 36\ (W)$

1

*an answer of 36 (W) scores **2** marks*

(d) LED lamps waste a smaller proportion of the input energy than filament lamps

1

[5]