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

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Name of the Student:_____
Max. Marks : 19 Marks **Time : 19 Minutes**

Mark Schemes

Q1.

(a) balance

1

(b) control variable

1

(c) use tongs / gloves
or
use a heatproof mat

allow other sensible methods of avoiding contact with hot beaker eg using a cloth

allow wait for the beaker (and hot water) to cool down

1

(d) 25 200 = 0.0090 *L*

1

$$L = \frac{25\,200}{0.0090}$$

1

L = 2 800 000
or
L = 2.8×10^6

1

J/kg

1

(e) the transfer of thermal energy from the water to the surroundings

1

[8]

Q2.

(a)

Energy resource	Renewable	Non-renewable
biofuel	✓	
coal		✓
nuclear		✓

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tides	✓	

*4 correct scores **2** marks*
*3 correct scores **1** mark*

2

(b) potential difference

1

current

1

energy

1

potential difference

1

this order only
allow p.d.

(c) charge flow = current × time
or
$Q = It$

1

(d) t = 300 (s)

1

Q = 130 000 × 300

allow a correct substitution using an incorrectly / not converted value of t

1

Q = 39 000 000
or
$Q = 3.9 \times 10^7$

allow a correct calculation using an incorrectly / not converted value of t

1

coulombs / C

1

[11]

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