## Practice Question Set For GCSE

**Subject: Physics** 

## Exam Preparation and Free Resources

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## Paper-1 Topic: GCSE Triple Science\_Electricity (Standard Demand Questions)

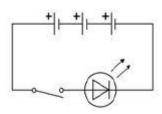
Name of the Student:

Max. Marks: 22 Marks Time: 22 Minutes

Mark Schemes

## Q1.

(a)



charge flow = current x time or

Q = It

I = 0.050 (A)(c)

 $Q = 0.050 \times 14400$ 

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

Q = 720 (C)

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

there is no current in a diode (in the reverse direction) (d)

charge will not flow through a diode (in the reverse direction)

allow diode will not conduct (electric charge)

do not accept the circuit is not complete

(because) a diode has a (very) high resistance (in the reverse direction)

Useful power output

Total power input (e) Efficiency =

Useful power output

0.24 0.75 =

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Q2.