Practice Question Set For GCSE
Subject : Physics
Paper-1 Topic: Energy (High Demand)

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

Q1.

On 7th June 2017 more than 50% of the electricity generated in the UK was from renewable sources.

(a) Suggest **two** environmental conditions in the UK on 7th June 2017.

1. _____

_____

2. _____

_____

(2)

(b) At midday 35.4 GW of electricity was generated.

20.8% of this was provided by gas-fired power plants.

Calculate the energy per second that was provided by gas-fired power stations.

_____

_____

_____

Energy per second = _____ J

(3)

(c) Some of the electricity generated was from low-carbon sources.

Low-carbon sources emit very little carbon dioxide.

Name **one** non-renewable resource that is a low-carbon source.

_____

(1)

(d) In the UK, electricity is delivered to consumers by the National Grid.

Explain the main features of the National Grid.

_____

_____

_____

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(6)

(e) The National Grid supplied a house with 18 000 000 J of energy in 1 hour.

What was the average current supplied to the house during that hour?

Write any equations that you use.

Current = _____ A

(5)

(Total 17 marks)

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