Practice Question Set For GCSE
Subject : Physics
Paper-1 Topic : 3_ Conservation of Energy

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

Q1.

* There are several large-scale energy resources which are suitable alternatives to fossil fuels in some situations.
Two of these alternatives are hydro-electric power and solar power.
Compare hydro-electric power with solar power as energy resources for the large-scale generation of electricity.

(6)

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.....
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Q2.

State **two** non-renewable energy sources.

(2)

1 .....
2 .....

(Total for question = 2 marks)

Q3.

Figure 10 shows all the energy sources used in Canada in 2014 and a prediction for 2040.

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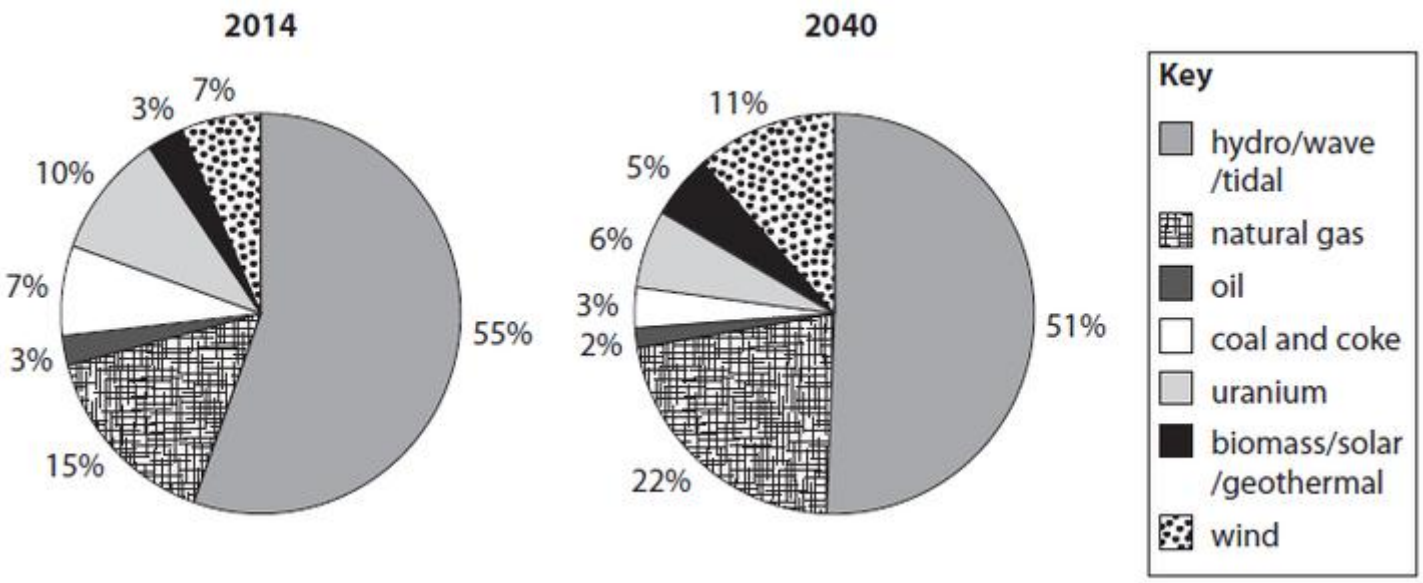

Figure 10

Discuss the effects on the environment of **two** predicted changes between 2014 and 2040.

(4)

change 1

.....

.....

effect on the environment

.....

.....

change 2

.....

.....

effect on the environment

.....

.....

(Total for question = 4 marks)

Q4.

Figure 9 shows the renewable energy sources used in the UK in 2015.

Figure 9 is to scale.

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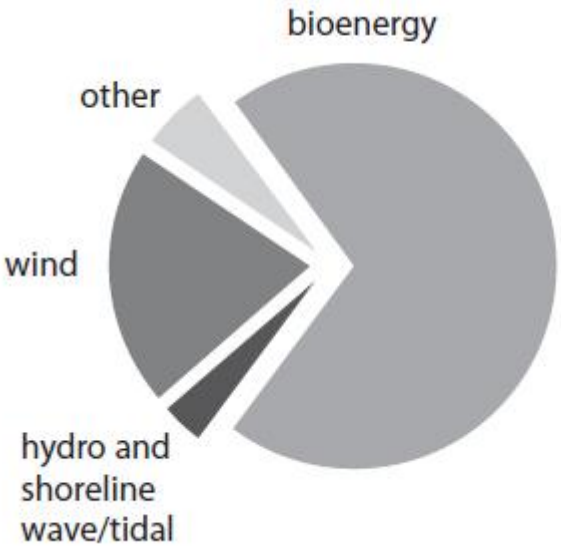

Figure 9

(i) State the energy source that gave the greatest amount of renewable energy for the UK in 2015.

(1)

.....

(ii) Justify your choice of energy source in part (i).

(1)

.....

.....

(iii) State which of these energy sources gave about 20% of the energy from renewable sources for the UK in 2015.

(1)

.....

(Total for question = 3 marks)

Q5.

A student uses a solar powered battery charger to charge some batteries.

The diagram is an energy transfer diagram for a battery being charged.

Use words from the box to complete the energy transfer diagram.

(2)

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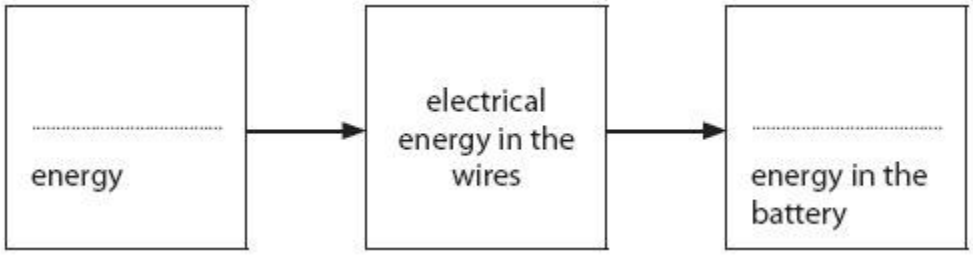
light	kinetic	sound
electrical	chemical	

Energy transfer diagram



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