



Exam : First Exam
Level : 3rd year Automation
Module : Renewable Energies
Saison : 2023/2024
Duration : 30 min

First & Last Name:.....

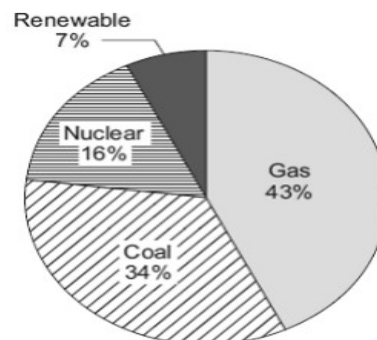
Q1(2,25 Points): Draw one line from each energy source in **List A** to the statement about the energy source in **List B**.

List A	List B
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px; width: fit-content; margin-left: auto; margin-right: auto;">Geothermal</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px; width: fit-content; margin-left: auto; margin-right: auto;">Hydroelectric</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;">Nuclear</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px; width: fit-content; margin-left: auto; margin-right: auto;">Uses energy from falling water</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px; width: fit-content; margin-left: auto; margin-right: auto;">Uses energy from inside the Earth</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px; width: fit-content; margin-left: auto; margin-right: auto;">Is unpredictable</div> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;">Produces dangerous waste</div>

Q2 (2 Points): The pie chart shows the proportions of electricity generated from different energy sources.

Calculate the percentage of electricity generated using fossil fuels.

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Q3 (3 Point): Complete the following sentence:

"In some types of power station, fossil fuels are burned to heat to produce steam"

Q4 (2,25 Point): Use words from the box to match the correct energy source to each of the descriptions given in the table.

biofuel coal geothermal nuclear waves	
Description	Energy source
Energy from the Earth's core is used to heat water.	
Fission of uranium nuclei is used to heat water.	
Gases from rotting plant material are burned to heat water.	

Q5 (3 Point): Why is it better to use more renewable energy resources rather than non-renewable resources ?

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Q6 (2 Points): Coal, gas, oil and wood are all examples of fuels.

Write the names of these fuels in the table below to show which are renewable and which are non-renewable.

Renewable	Non-Renewable

Q7 (2,5 Points): The list below shows energy resources which are not fuels: geothermal, nuclear, solar, tides, wind. Write the names of the energy resources in the table below to show which are renewable and which are non-renewable.

Renewable	Non-Renewable

Q8 (3 Points): Use the correct answer from the box to complete each sentence.

electrical gravitational potential kinetic nuclear sound

- * The water in the high level reservoir stores _____ energy.
 - * The flowing water has _____ energy.
 - * The water turns the turbine which is connected to the generator.
 - * The generator produces some _____, this is wasted energy.
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Good luck

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