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Energy Sources

Question Paper

Course	CIE IGCSE Physics
Section	1. Motion, Forces & Energy
Topic	Energy Sources
Difficulty	Easy

Time Allowed 40

Score /33

Percentage /100

Question 1

Here are some statements about energy and energy resources.

	[3 marks]
☐ Geothermal energy is obtained from hot rocks below the ground.	
☐ Coal and crude oil are sources of renewable energy.	
\square Wind turbines are turned using gravitational potential energy.	
☐ Burning fossil fuels produces atmospheric pollution.	
\square Building hydroelectric power stations has an impact on the environment.	
Some statements are correct. Put a tick (✔) in the box alongside each of these.	



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Question 2a

Coal is a noi	n-renewable source of energy.	
(i)	Explain what is meant by the term non-renewable.	[1]
(ii)	There are other non-renewable sources of energy.	
	Place a tick in the box by each non-renewable source of energy.	
	□ nuclear □ oil □ solar □ wave □ wind	[1] [2 marks]
Question 2	2b	
State two a	dvantages and two disadvantages of using natural gas as an energy source.	[4 marks]

Question 3a

Fig. 5.1 shows part of a solar farm. The solar panels tilt and rotate.

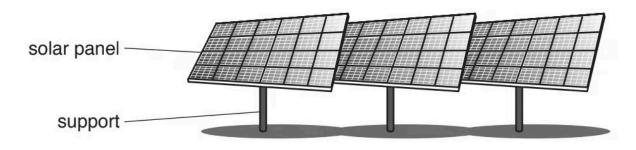


Fig. 5.1

The solar farm converts energy from a source into a different, useful form of energy.

State the energy source and the useful form of energy.

[2 marks]

Question 3b

Solar farms have advantages and disadvantages.

- (i) State **two** advantages of a solar farm.
- (ii) State one disadvantage of a solar farm.

[]] [3 marks]

[2]



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[1 mark]

[2 marks]

[2 marks]

Question 3c
Suggest why it is useful that the panels can tilt and rotate.
Question 4a
Fill in the gaps in the sentence below about energy sources.
Two methods of using energy from water are and
Question 4b
State two advantages of one of the methods from part (a).

Question 4c

A graph of the energy output of two renewable resources over time is shown in Fig. 1.1. One is a solar cell, the other is a wind turbine.

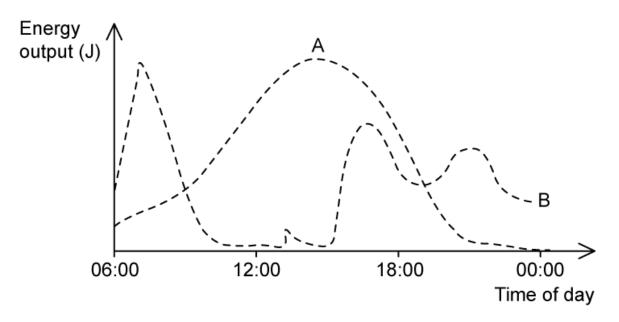


Fig. 1.1

Fig. 1.1

State which line on the graph represents the energy output of a solar cell.

[1 mark]

Question 4d

Explain how you arrived at your answer to part (c).

[2 marks]



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[1 mark]

Question 5b

A list of resources is shown in the table below.

Resource	Renewable	Non-renewable
Coal		✓
Nuclear fuel Nuclear fuel		
Biofuel		
Solar energy		
Oil		

Place	a ticl	k in the	correct	hox for	each resource

[4 marks]

Question 5c

Fossil fuels are produced when living matter is compressed. They are continually produced.

Explain why they are not a renewable resource.

[2 marks]

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Question 5d

Extended tier only

(i) Describe the process of nuclear fusion.

(ii) Explain why nuclear fusion is not currently used as an energy resource.

[2]

[2]

[4 marks]