**Resources**

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| Instructions to students  • You have 50 minutes to complete the test.  • Please answer all questions in the spaces provided.  • There is to be no talking during the test. | Marks  Section I: Multiple-choice questions: 5 marks  Section II: Short-answer questions: 12 marks  Section III: Extended-response questions: 8 marks  Total: 25 marks |

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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Score: /25  Grade: % |
| Comments: | |

Section I: Multiple-choice questions

For each question, circle or highlight the correct answer.

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| 1 Minerals are classed as: | |
| A | Non-renewable resources. |
| B | recyclable resources. |
| C | non-recyclable resources. |
| D | easily renewable resources. |
| 2 What are the three main sources of Australia’s energy? | |
| A | Nuclear energy and coal |
| B | Coal, solar energy and natural gas |
| C | Coal, oil and natural gas |
| D | Solar energy, wind power and hydroelectricity |
| 3 Australia has the world’s largest supply of uranium, but how much of Australia’s electricity is generated from uranium? | |
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| A | 100% |
| B | 0% |
| C | 3% |
| D | 50% |

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| 4 Gases in the atmosphere that can absorb heat are called: | |
| A | natural gases. |
| B | fossil fuels. |
| C | greenhouse gases. |
| D | renewable resources. |
| 5 Hybrid cars use a mix of: | |
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| A | gas and electricity. |
| B | fuel cells and methanol. |
| C | petrol and gas. |
| D | petrol and electricity. |

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|  | Section I  Total marks:  /5 marks |

Section II: Short-answer questions

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| 6 Outline the four main steps involved in the formation of fossil fuels like brown coal. | | | |
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| 7 Identify three examples of energy devices or practices that could be implemented around the home to make it more energy efficient? | | | |
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| 8 Give ONE advantage and TWO disadvantages of using uranium as a fuel source. | | | |
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|  | /3 marks | | |
| 9 Is soil a renewable or non-renewable resource? Explain your answer. | | | |
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|  | | Section II  Total marks:  /12 marks | |

Section III: Extended-response questions

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| 10 Imagine you are an environmental engineer. Your task is to look at a location and decide the best type of renewable energy that could harness the resources of that location. What sort of environmental factors would influence your decision? Explain your answer. | |
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| 11 Discuss the similarities and differences between the use of coal and geothermal energy in generation of electricity. | |
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|  | Section III  Total marks:  /8 marks |