1.8 Climate Change: Test Pack

AQA 8035 · Calculator allowed · about 15 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 This question is about managing climate change.

(a) State what is meant by mitigation, in the context of climate change. **(1)**

(b) State what is meant by adaptation, in the context of climate change. **(1)**

(Total for Question 1 is 2 marks)

2 Explain TWO mitigation strategies that can be used to reduce the causes of climate change.

(Total for Question 2 is 4 marks)

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3 State the name and the main temperature target of the major international climate agreement signed in 2015.

(Total for Question 3 is 2 marks)

4 Explain why the scientific consensus is that recent global warming, since the mid-20th century, is mainly caused by human activity rather than natural causes alone.

(Total for Question 4 is 4 marks)

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Mark scheme · 1.8 Climate Change: Test Pack

Question 1

(a) action taken to reduce or prevent the causes of climate change, e.g. reducing greenhouse gas emissions, oe **B1**

(a) Answer: Action taken to reduce or prevent the causes of climate change, for example by reducing greenhouse gas emissions.

(b) action taken to adjust to, and reduce the harm from, the effects of climate change that are already happening or expected, oe **B1**

(b) Answer: Action taken to adjust to, and reduce the harm from, the effects of climate change that are already happening or expected.

Question 2

strategy 1, e.g. switching to alternative (renewable) energy sources such as solar, wind or tidal power, oe **B1**

linked detail, e.g. these produce electricity without releasing carbon dioxide, reducing overall emissions, oe **B1**

strategy 2, e.g. planting trees (afforestation/reforestation), oe **B1**

linked detail, e.g. trees absorb and store carbon dioxide as they grow, removing it from the atmosphere, oe **B1**

Answer: For example: switching to renewable energy sources such as solar, wind or tidal power, which generate electricity without releasing carbon dioxide; and planting trees, which absorb and store carbon dioxide from the atmosphere as they grow.

Question 3

the Paris Agreement (2015) **B1**

to limit global warming to well below 2°C above pre-industrial levels, and to pursue efforts to limit it to 1.5°C, oe **B1**

Answer: The Paris Agreement (2015), which aims to limit global warming to well below 2°C above pre-industrial levels, and to pursue efforts to limit it to 1.5°C.

Question 4

atmospheric carbon dioxide levels, measured directly and from ice cores, have risen sharply since industrialisation, closely tracking the rise in fossil fuel use, oe **B1**

the rate of recent warming is much faster than natural climate shifts recorded in the ice-core and geological record, oe **B1**

known natural causes (e.g. solar output, volcanic activity) have not changed enough in this period to explain the scale of warming observed, oe **B1**

climate models that include human greenhouse gas emissions closely match observed warming, while models using only natural factors do not, oe **B1**

Answer: Carbon dioxide levels have risen sharply since industrialisation, tracking fossil fuel use; the rate of recent warming is much faster than natural shifts seen in the geological record; known natural causes have not changed enough to explain it; and climate models that include human emissions match observed warming far more closely than models using only natural factors.

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