



EXAM PAPERS PRACTICE

Fragile environments and climate change -1

Name: _____

Class: _____

Date: _____

Time:

Total Marks Available:

Total Marks Archived:

Level: IGCSE Mathematics A

Subject: Geography

Exam Board: Edexcel IGCSE Geography- it is however suitable for use by mathematics student of other boards

Topic: Fragile environments and climate change -1

Type: Topic Questions

To be used by all students preparing for Edexcel IGCSE Geography- Students of other Boards may also find this useful

Questions

Q1.

Answer the questions with a cross in the boxes you think are correct ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

Fragile environments and climate change

(i) Identify the meaning of the term **drought**.

(1)

<input type="checkbox"/>	A A period of time with abnormally low rainfall.
<input type="checkbox"/>	B A period of time with high rainfall.
<input type="checkbox"/>	C A period of time with high temperatures.
<input type="checkbox"/>	D A period of time with abnormally low humidity.

(ii) Define the term **desertification**.

(2)

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(iii) Identify **one** method to manage the impacts of desertification.

(1)

<input checked="" type="checkbox"/>	A Removing trees in affected areas
<input checked="" type="checkbox"/>	B Install solar panels
<input checked="" type="checkbox"/>	C Install water storage devices
<input checked="" type="checkbox"/>	D Increase cattle farming

(Total for question = 4 marks)

Q2.
Answer the question with a cross in the box you think is correct . If you change your mind about an answer, put a line through the box and then mark your new answer with a cross .

Fragile environments and climate change

(i) Identify the correct word to complete the sentence below.

Greenhouse gases allow ... radiation through the atmosphere to warm the Earth's surface.

(1)

- A nuclear
- B light
- C temperature
- D solar

(ii) Identify the meaning of the term **Milankovitch cycle**.

(1)

- A changes in the shape of the Earth's orbit
- B changes to rainfall patterns
- C changes to the carbon cycle
- D changes in the composition of the atmosphere

(Total for question = 2 marks)

Q3.

Fragile environments and climate change

Study Figure 7b in the Resource Booklet.

(i) Calculate the percentage increase in carbon dioxide concentrations between 1900 and 2010. You must show all your workings in the space below.

(2)

..... %

(ii) Identify the extent to which carbon dioxide concentrations and annual average global temperature has changed over time in Figure 7b.

(2)

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(Total for question = 4 marks)

Q4.

Fragile environments and climate change.

Study Figure 7b in the Resource Booklet.

(i) Calculate the range in CO₂ emissions in **India** between 1960 and 2015. You must show all your workings in the space below.

(2)



.....
(ii) Identify the trends in CO₂ emissions in China, 1960-2015.

(2)

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(Total for question = 4 marks)

Q5.

Answer the questions with a cross in the boxes you think are correct . If you change your mind about an answer, put a line through the box and then mark your new answer with a cross .

Fragile environments and climate change

(i) Identify **one** human cause of **climate change**.

(1)

<input type="checkbox"/>	A Milankovitch cycles
<input type="checkbox"/>	B intensive farming
<input type="checkbox"/>	C volcanoes
<input type="checkbox"/>	D sun-spot cycles

(ii) Identify **one** cause of **deforestation**.

(1)

<input type="checkbox"/>	A planting of trees
<input type="checkbox"/>	B sustainable forest management
<input type="checkbox"/>	C lowering of sea levels
<input type="checkbox"/>	D significant increase in mining

(Total for question = 2 marks)

Q6.

Fragile environments and climate change

(i) Define the term 'desertification'.

(1)

.....
.....

(ii) Study Figure 7a in the Resource Booklet.

Name **two** countries labelled in Figure 7a that have severe desertification and land degradation.

(2)

1
2

(iii) Suggest **two** possible reasons for the pattern shown in Figure 7a.

(4)

1.....
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2.....
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(Total for question = 7 marks)

Q7.

Fragile environments and climate change.

Discuss the view:

“Those people contributing the most to climate change will experience the greatest impact”.

Use Figures 7a, 7b and 7c from the Resource Booklet and your own knowledge and understanding to support your answer.

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(Total for question = 12 marks)

Q8.

Fragile environments and climate change

Discuss the view:

‘The places which contribute the most to climate change will be the places that suffer the least from climate change.’

Use Figures 7a and 7c from the Resource Booklet and your own knowledge and understanding to support your answer.

(12)

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(Total for question = 12 marks)



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(Total for question = 12 marks)

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Q10.

Fragile environments and climate change

Explain **two** causes of deforestation.

(4)

1

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2

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(Total for question = 4 marks)

Q11.

Fragile environments and climate change.

Explain **two** negative effects of deforestation on people in fragile environments.

(4)

1.....

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2.....

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(Total for question = 4 marks)

Q12.

Fragile environments and climate change

(i) Define the term **global climate change**.

(1)

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(ii) Study Figure 7a in the Resource Booklet.

Identify **two** countries labelled in Figure 7a, **one** with the highest and **one** with the lowest total carbon emissions.

(2)

Highest

Lowest

(iii) Suggest **two** possible reasons for the pattern shown in Figure 7a.

(4)

1.....

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2.....

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(Total for question = 7 marks)

Q13.

Fragile environments and climate change.

(i) Identify the meaning of the term **solar variation**.

(1)

- A** changes in energy received by the Earth's upper atmosphere
- B** changes in the energy received from Earth's surface
- C** changes in the upper atmosphere solar winds
- D** changes in the amount of energy emitted by stars

(ii) State what is meant by the term **Milankovitch cycles**.

(2)

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(iii) Identify **one** human activity leading to the enhanced greenhouse effect.

(1)

- A** increased dust in the Earth's atmosphere
- B** increased intensive agriculture
- C** increased volcanic emissions
- D** increased sun-spot activity

(Total for question = 4 marks)

Q14.

Fragile environments and climate change.

(i) Study Figure 7a in the Resource Booklet.

Identify the **two** countries labelled in Figure 7a with the most and least CO₂ emissions.

(2)

Most

.....

Least

.....

(ii) Suggest **two** reasons for the pattern shown on Figure 7a.

(4)

1.....

.....

.....
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2.....

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(Total for question = 6 marks)

Q15.

Fragile environments and climate change

Answer the question with a cross in the box you think is correct . If you change your mind about an answer, put a line through the box and then mark your new answer with a cross

(i) Identify **one** greenhouse gas.

(1)

<input type="checkbox"/>	A Nitrogen
<input type="checkbox"/>	B Oxygen
<input type="checkbox"/>	C Argon
<input type="checkbox"/>	D Methane

(ii) State **one** natural cause of climate change.

(1)

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(Total for question = 2 marks)

Q16.

Fragile environments and climate change

Study Figure 7b in the Resource Booklet.

(i) Calculate the mean change in global forest area, 1990–2015.

You must show all your workings in the space below.

Give your answer to one decimal place.

For more help visit our website <https://www.exampaperspractice.co.uk/>



(2)

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(ii) Describe the differences in the changes in global forest area for Europe and Central Asia, and Latin America.

(2)

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(Total for question = 4 marks)

Q17. **Fragile environments and climate change.**

(i) State **one** example of a greenhouse gas.

(1)

.....

(ii) Identify the meaning of the term **enhanced greenhouse effect**.

(1)



<input type="checkbox"/>	A cooling of the Earth's atmosphere resulting from human activities
<input type="checkbox"/>	B warming of the Earth's atmosphere resulting from human activities
<input type="checkbox"/>	C additional heat trapped in the Earth's atmosphere as a result of natural effects
<input type="checkbox"/>	D greenhouse gases naturally present in the Earth's atmosphere causing warming

(iii) Identify the meaning of the term **Milankovitch cycle**.

(1)

<input type="checkbox"/>	A cyclical movement of the Earth's orbit around the Sun
<input type="checkbox"/>	B differences in the amount of energy emitted from the Sun
<input type="checkbox"/>	C additional heat trapped in the Earth's atmosphere
<input type="checkbox"/>	D seasonal movement of the Sun in different orbits

(Total for question = 3 marks)

Q18.

Fragile environments and climate change

State **one** human cause of climate change.

(1)

.....



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(Total for question = 1 mark)

Q19.

Fragile environments and climate change.

State **two** characteristics of a named fragile environment.

(2)

Named fragile environment

Characteristic 1
.....

Characteristic 2
.....

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(Total for question = 2 marks)

Q20.

Fragile environments and climate change

Study Figure 7a in the Resource Booklet.

(i) Identify a decade where global temperature variation goes above zero.

(1)

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(ii) Compare the patterns of CO₂ and global temperature variation.

(2)

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(iii) Identify **two** reasons for the increased CO₂ emissions.

(2)

1.....

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2.....

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(iv) Suggest **one** reason why the data may not show global climate change accurately.

(2)

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(Total for question = 7 marks)