Oxford Cambridge and RSA

Wednesday 21 May 2025 – Morning

AS Level Geography

H081/02 Geographical debates

Time allowed: 1 hour 30 minutes

You must have:
- the OCR 12-page Answer Booklet
- the Resource Booklet (inside this document)

You can use:
- a ruler (cm/mm)
- a scientific or graphical calculator

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INSTRUCTIONS
- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the Answer Booklet. The question numbers must be clearly shown.
- Fill in the boxes on the front of the Answer Booklet.
- Section A: Choose **one** topic. Answer **all** the parts of the question for the topic.
- Section B: Choose **one** topic. Answer **all** the parts of the question for the topic.
- Section C: Choose **one** topic. Answer **one** question from the topic.
- Use the Resource Booklet to answer the questions in Section A and Section B.

INFORMATION
- The total mark for this paper is **68**.
- The marks for each question are shown in brackets **[ ]**.
- Quality of extended response will be assessed in questions marked with an asterisk (*).
- This document has **8** pages.

ADVICE
- Try to answer every part of each question you choose.
- Read each question carefully before you start your answer.

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Section A

Choose **one** topic and answer **all** the parts of the question in your chosen topic.

Climate Change

1

(a) Explain how **two** geoengineering strategies might reduce the risks of climate change. **[4]**

(b) Examine how past climate reveals periods of icehouse Earth. **[6]**

(c) Study **Fig. 1**, which shows the decreasing extent of Arctic sea ice.

(i) With reference to **Fig. 1**, describe the changes in extent of Arctic sea ice shown. **[4]**

(ii) Using evidence from **Fig. 1**, suggest possible reasons for changes in the extent of Arctic sea ice. **[6]**

(d) 'The Intergovernmental Panel on Climate Change provides the most significant human response to climate change.'

Discuss. **[12]**

Disease Dilemmas

2

(a) Explain how nature has provided conditions for **two** different medicines used to treat disease. **[4]**

(b) Examine how international organisations respond to the diffusion of disease. **[6]**

(c) Study **Fig. 2**, which shows diabetes prevalence among adults, ages 20–79, in Africa, 2021.

(i) With reference to **Fig. 2**, describe the spatial pattern of diabetes prevalence in Africa. **[4]**

(ii) Using evidence from **Fig. 2**, suggest possible reasons for the variation in diabetes prevalence in Africa. **[6]**

(d) 'Human factors affect the spread of disease following a natural hazard more than environmental factors.'

Discuss in the context of **one** country. **[12]**

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Exploring Oceans

3

(a) Explain **two** impacts on indigenous peoples resulting from changes in extent of sea ice in the Arctic region. **[4]**

(b) Examine how pollution can spread around the globe via oceanic circulation. **[6]**

(c) Study **Fig. 3**, which shows the distribution of USA naval strongholds in the Indo-Pacific region, 2023.

(i) With reference to **Fig. 3**, describe the distribution of USA naval strongholds shown. **[4]**

(ii) Using evidence from **Fig. 3**, suggest possible reasons for the distribution of USA naval strongholds. **[6]**

(d) 'Effective management is the key to sustainable use of biological resources within oceans.'

Discuss in the context of **one** renewable biological resource within oceans. **[12]**

Future of Food

4

(a) Explain **two** ways that globalisation can influence the food industry. **[4]**

(b) Examine the role of agribusiness in influencing the global food system. **[6]**

(c) Study **Fig. 4**, which shows the Global Hunger Index for countries of Africa, 2023.

(i) With reference to **Fig. 4**, describe the spatial pattern of the Global Hunger Index shown. **[4]**

(ii) Using evidence from **Fig. 4**, suggest possible reasons for variation in the Global Hunger Index. **[6]**

(d) 'Risks to food security in dryland areas are influenced mainly by worsening factors.'

Discuss in the context of **one** dryland area. **[12]**

Hazardous Earth

5

(a) Explain the fossil evidence for continental drift. **[4]**

(b) Examine how fossil records provide evidence for theories of continental drift and plate tectonics. **[6]**

(c) Study **Fig. 5**, which shows plates and plate boundaries in the southeast Pacific.

(i) With reference to **Fig. 5**, describe the pattern of plates and plate boundaries in the southeast Pacific. **[4]**

(ii) Using evidence from **Fig. 5**, suggest possible reasons for features and processes associated with the **convergent** plate boundaries shown. **[6]**

(d) 'Mitigation against vulnerability is the only effective strategy to manage hazards from volcanic activity.'

Discuss. **[12]**

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Section B

Choose **one** topic and answer **all** the parts of the question in your chosen topic.

You **must** use your knowledge and understanding from across the course of study to answer these questions.

Climate Change

6

(a) With reference to **Fig. 6**, suggest how the importance of the carbon cycle to climate change might influence players that drive economic change. **[8]**

(b) Examine how the shrinking of valley glaciers and ice sheets might affect people's perception of places. **[8]**

Disease Dilemmas

7

(a) With reference to **Fig. 7**, suggest how the global distribution of tuberculosis can be linked to spatial patterns of social inequalities. **[8]**

(b) Examine how the socio-economic impacts of communicable diseases can influence characteristics of place profiles. **[8]**

Exploring Oceans

8

(a) With reference to **Fig. 8**, suggest how the use of ocean energy resources can influence people's perception of places in different ways. **[8]**

(b) Examine how the direction and type of trade across oceans can be influenced by past connections. **[8]**

Future of Food

9

(a) With reference to **Fig. 9**, suggest how shocks that impact food security can be affected by climate change in **one** landscape system you have studied (coastal, glaciated or dryland). **[8]**

(b) Examine how people whose food security is most at risk across the development spectrum can affect shifting flows of people. **[8]**

Hazardous Earth

10

(a) With reference to **Fig. 10**, suggest how tsunamis generated by earthquakes can influence flows of money and investment. **[8]**

(b) Examine how volcanic eruptions of tephra and ash can affect place identity. **[8]**

Section C

Choose **one** topic and answer **one** question in your chosen topic.

Climate Change

11* 'The impacts of climate change differ according to a country's stage of economic development.'

To what extent do you agree? **[20]**

Or

12* 'Adaptation strategies are the most effective ways of reducing and managing the risks of climate change.'

Discuss. **[20]**

Disease Dilemmas

13* To what extent is the prevalence of disease influenced by seasonal variations in climate? **[20]**

Or

14* 'National solutions provide the best way of dealing with incidences of cancers.'

Discuss in the context of **one** country experiencing air pollution. **[20]**

Exploring Oceans

15* 'Governments and communities of small island states meet the threat of rising sea level mainly by long term adaptations.'

Discuss in the context of **one** island community. **[20]**

Or

16* 'Changes in nutrient supply influence the biodiversity of ocean ecosystems more than any other factor.'

To what extent do you agree? **[20]**

Future of Food

17* 'Strategies and techniques used to ensure food security depend on level of development.'

To what extent do you agree? **[20]**

Or

18* 'Attempts to increase food production have mainly long-term impacts rather than short-term impacts on the physical environment.'

Discuss. **[20]**

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Hazardous Earth

19* ‘People only choose to live in tectonically active locations for economic reasons.’

Discuss. **[20]**

Or

20* ‘Ability to deal with the problems presented by tectonic hazards has never really changed.’

How far do you agree? **[20]**

END OF QUESTION PAPER

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