



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

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.

2

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]

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]

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]

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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