

Modified Enlarged 24pt
OXFORD CAMBRIDGE AND RSA EXAMINATIONS

Wednesday 21 May 2025 – Morning

AS Level Geography

H081/02 Geographical debates

**Time allowed: 1 hour 30 minutes
plus your additional time allowance**

YOU MUST HAVE:

**the OCR 12-page Answer Booklet
the Resource Booklet (with
this document)**

YOU CAN USE:

**a ruler (cm/mm)
a scientific or graphical calculator**

READ INSTRUCTIONS OVERLEAF



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 (*).

ADVICE

Try to answer every part of each question you choose.

Read each question carefully before you start your answer.

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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