



Oxford Cambridge and RSA

**Wednesday 24 May 2023 – 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 Sections A and 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.

## Section A

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

## Climate Change

- 1 (a) Explain how **two** mitigation strategies can cut global emissions of greenhouse gases. [4]
- (b) Examine how the public image of climate change can be shaped by different interest groups. [6]
- (c) Study **Fig. 1**, which shows the global distribution of carbon dioxide emissions per capita in 2018.
- (i) With reference to **Fig. 1**, describe the global distribution of carbon dioxide emissions per capita. [4]
- (ii) Using evidence from **Fig. 1**, analyse possible reasons for the variation in carbon dioxide emissions per capita. [6]
- (d) 'The environmental impacts of climate change present greater threats than the socio-economic impacts.'  
Discuss in the context of **one** EDC **or** LIDC. [12]

## Disease Dilemmas

- 2 (a) Explain how **two** socio-economic barriers can limit the spread of disease. [4]
- (b) Examine how zoonotic infectious diseases can be spread from animals to humans. [6]
- (c) Study **Fig. 2**, which shows the global distribution of cardio-vascular disease (CVD) mortality, 2017.
- (i) With reference to **Fig. 2**, describe the global distribution of CVD mortality. [4]
- (ii) Using evidence from **Fig. 2**, analyse possible reasons for the variation in CVD mortality rates. [6]
- (d) 'Environmental factors are the main cause of communicable disease.'  
Discuss in the context of **one** communicable disease in **either** an LIDC **or** EDC. [12]

### Exploring Oceans

- 3 (a) Explain **two** threats of rising ocean temperature to coral ecosystems. [4]
- (b) Examine how the accumulation of plastic in oceans can have impacts on marine ecosystems. [6]
- (c) Study **Fig. 3**, which shows the global pattern of principal shipping routes across the oceans.
- (i) With reference to **Fig. 3**, describe the global pattern of principal shipping routes across the oceans. [4]
- (ii) Using evidence from **Fig. 3**, analyse factors that influence the pattern of principal shipping routes across the oceans. [6]
- (d) 'Sea level change is the main threat to island communities.'  
Discuss in the context of **one** island community. [12]

### Future of Food

- 4 (a) Explain **two** health issues that are associated with food shortages. [4]
- (b) Examine how geographical pinchpoints in supply chains can increase risks to food security. [6]
- (c) Study **Fig. 4**, which shows the global food security index, 2019.
- (i) With reference to **Fig. 4**, describe the global food security index. [4]
- (ii) Using evidence from **Fig. 4**, analyse economic factors that might account for the variation in the global food security index. [6]
- (d) 'Food security risks and vulnerability are influenced mainly by physical factors.'  
Discuss in the context of **one** dryland area. [12]

### Hazardous Earth

- 5 (a) Explain the formation of **two** features found at convergent (destructive) plate boundaries. [4]
- (b) Examine how earthquake activity shapes landforms and landscapes. [6]
- (c) Study **Fig. 5**, which shows the global distribution of earthquakes from 1960 to present.
- (i) With reference to **Fig. 5**, describe the global distribution of deep focus earthquakes (depth of 300 km or more). [4]
- (ii) Using evidence from **Fig. 5**, analyse the reasons for the global distribution of deep focus earthquakes. [6]
- (d) 'The benefits of living in tectonically active locations outweigh the costs.'  
Discuss in the context of **one** EDC or LIDC. [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 future homes, offices and cities developed in response to risks from climate change might influence employment opportunities in places. [8]
- (b) Examine how the enhanced greenhouse effect might influence the flows of energy and material through **one** landscape system you have studied. [8]

**Disease Dilemmas**

- 7 (a) With reference to **Fig. 7**, suggest how patterns of disease outbreaks at a global scale might be influenced by social inequality. [8]
- (b) Examine how the threats to medicinal plants can be linked to processes of globalisation. [8]

**Exploring Oceans**

- 8 (a) With reference to **Fig. 8**, suggest how the use of ocean energy resources might influence employment opportunities in places. [8]
- (b) Examine how the use of oceans as escape routes for migrants can shape place profiles over time. [8]

**Future of Food**

- 9 (a) With reference to **Fig. 9**, suggest how attempts to increase food production can affect place identity. [8]
- (b) Examine how fair trade organisations can influence the global food system by driving economic change in places. [8]

**Hazardous Earth**

- 10 (a) With reference to **Fig. 10**, suggest how strategies to manage volcanic hazards can shape place profiles over time. [8]
- (b) Examine how earthquake activity might influence the flows of energy and material through **one** landscape system you have studied. [8]

**Section C**

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

**Climate Change**

- 11\*** 'The success of international directives, such as the Kyoto Protocol, has the greatest influence on reducing current rates of warming on a global scale.'  
To what extent do you agree? [20]

Or

- 12\*** Evaluate the evidence for a warming world since the late-nineteenth century. [20]

**Disease Dilemmas**

- 13\*** 'Standards of living have the greatest impact upon susceptibility to disease.'  
To what extent do you agree? [20]

Or

- 14\*** Evaluate the success of strategies used by government and international agencies to mitigate against communicable disease. [20]

**Exploring Oceans**

- 15\*** 'Geo-political implications of changes in ice-cover are the most significant consequence of global warming in the Arctic region.'  
To what extent do you agree? [20]

Or

- 16\*** 'Off-shore oil production and transportation poses more threats to the physical environment than to human activity.'  
Discuss. [20]

**Future of Food**

- 17\*** 'It is the major food retailers that have the most important role and responsibility in influencing the global food system.'  
To what extent do you agree? [20]

Or

- 18\*** 'Long-term strategies are the most effective way to improve food security.'  
Discuss. [20]

**Hazardous Earth**

**19\*** 'Attempts to mitigate against vulnerability are more successful than attempts to mitigate against losses.'  
With reference to earthquakes, to what extent do you agree? **[20]**

**Or**

**20\*** 'The environmental impacts of a volcanic eruption are always more significant than the economic impacts.'  
Discuss. **[20]**

**END OF QUESTION PAPER**



---

**OCR**  
Oxford Cambridge and RSA

**Copyright Information**

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website ([www.ocr.org.uk](http://www.ocr.org.uk)) after the live examination series. If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact The OCR Copyright Team, The Triangle Building, Shaftesbury Road, Cambridge CB2 8EA.

OCR is part of Cambridge University Press & Assessment, which is itself a department of the University of Cambridge.