



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**



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