



Oxford Cambridge and RSA

# Tuesday 19 October 2021 – Morning

## A Level Geography

### H481/03 Geographical debates

**Time allowed: 2 hours 30 minutes**



**You must have:**

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

**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 **two** topics. Answer **both parts** of the question from **each** topic.
- Section B: Choose **two** topics. Answer the question from **each** topic.
- Section C: Choose **two** topics. Answer **one** question from **each** topic.
- Use the Resource Booklet to answer the questions in Section A.

#### **INFORMATION**

- The total mark for this paper is **108**.
- 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 **two topics** and answer **both parts** of the question from **each** topic.

**Topic 3.1 – Climate Change**

1 (a) Identify **three** limitations of **Fig. 1** as a source of information about the greenhouse effect. [3]

(b) Explain how geoengineering can cut global emissions of greenhouse gases. [6]

**Topic 3.2 – Disease Dilemmas**

2 (a) Identify **three** limitations of **Fig. 2** as a source of information about the global distribution of people living with dementia in 2015. [3]

(b) Explain the environmental causes of **one** communicable disease. [6]

**Topic 3.3 – Exploring Oceans**

3 (a) Identify **three** limitations of **Fig. 3** as a source of information about the pattern of circulation in the North Atlantic. [3]

(b) Explain the distinctive features of guyots. [6]

**Topic 3.4 – Future of Food**

4 (a) Identify **three** limitations of **Fig. 4** as a source of information about the global distribution of organic agriculture in 2015. [3]

(b) Explain how food production methods can vary within a country or region. [6]

**Topic 3.5 – Hazardous Earth**

5 (a) Identify **three** limitations of **Fig. 5** as a source of information about rift valleys. [3]

(b) Explain the role of convection currents in the asthenosphere. [6]

### Section B – Synoptic questions

Choose **two topics** and answer **the** question from **each** topic. You must use your knowledge and understanding from across the course of study to answer these questions.

#### Topic 3.1 – Climate Change

6 Examine how climate change may be impacting the water cycle in tropical rainforests. [12]

#### Topic 3.2 – Disease Dilemmas

7 Examine how the prevalence of non-communicable disease is influenced by issues of **EITHER** human rights **OR** territorial integrity. [12]

#### Topic 3.3 – Exploring Oceans

8 Examine how oceans influence patterns of **EITHER** global trade **OR** global migration. [12]

#### Topic 3.4 – Future of Food

9 Examine how physical factors affect food security in any **ONE** landscape system you have studied. [12]

#### Topic 3.5 – Hazardous Earth

10 Examine how strategies to manage tectonic hazards shape place identity. [12]

## Section C

Choose **two topics** and answer **one** question from **each** topic.

### Topic 3.1 – Climate Change

**11\*** 'Vulnerability to climate change depends on location rather than the level of economic development.'

Discuss.

[33]

Or

**12\*** 'Evidence from the past contributes to accurate predictions of future climate change.'

Discuss.

[33]

### Topic 3.2 – Disease Dilemmas

**13\*** To what extent can **one** NGO effectively mitigate against disease at a national scale?

[33]

Or

**14\*** 'Increasing mobility is the main influence on diffusion of disease at a variety of scales.'

To what extent do you agree?

[33]

### Topic 3.3 – Exploring Oceans

**15\*** Discuss the extent to which climate change has irreversibly damaged the oceans.

[33]

Or

**16\*** 'Plastic is the most serious threat to marine ecosystems.'

Discuss.

[33]

### Topic 3.4 – Future of Food

**17\*** 'Advanced Countries will always experience food security.'

To what extent do you agree with this statement?

[33]

Or

**18\*** 'Food production and food security issues have a greater impact on the physical environment than they do on people.'

Discuss.

[33]

**Topic 3.5 – Hazardous Earth**

**19\*** 'The impacts of tectonic hazards are mainly economic rather than political or environmental.'  
Discuss. [33]

**Or**

**20\*** All types of plate boundaries generate tectonic hazards for people.  
To what extent are those at convergent boundaries the most damaging? [33]

**END OF QUESTION PAPER**







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