



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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