



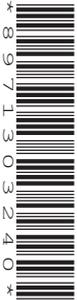
Oxford Cambridge and RSA

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

**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) 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 the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.