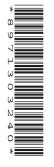


# **Tuesday 19 October 2021 – Morning**

## 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 <b>three</b> limitations of <b>Fig. 2</b> as a source of information about the global distributio people living with dementia in 2015.	n of <b>[3]</b>
	(b)	Explain the environmental causes of one communicable disease.	[6]

#### Topic 3.3 – Exploring Oceans

3	(a)	Identify <b>three</b> limitations of <b>Fig. 3</b> as a source of information about the pattern of circulation the North Atlantic.	on in <b>[3]</b>
	(b)	Explain the distinctive features of guyots.	[6]

#### Topic 3.4 – Future of Food

4	(a)	Identify <b>three</b> limitations of <b>Fig. 4</b> as a source of information about the global distribution organic agriculture in 2015.	n of <b>[3]</b>
	(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]		
Тор	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]		
Тор	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]		
Тор	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.

### 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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