

# **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**

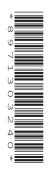
- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the Answer Booklet. The question numbers must be clearly shown.
- · Fill in the boxes on the front of the Answer Booklet.
- Section A: Choose two topics. Answer both parts of the question 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.
  - (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. [1

[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.

<b>Topic 3.1 –</b>	Climate	Change
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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	ic 3.2 – Disease Dilemmas		
13*	To what extent can <b>one</b> 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]	
Тор	ic 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 environme 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.

Or

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

**END OF QUESTION PAPER** 

[33]

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