



Oxford Cambridge and RSA

# A Level Geography

H481/03 Geographical debates

**Thursday 14 June 2018 – Afternoon**

**Time allowed: 2 hours 30 minutes**



**You must have:**

- the Resource Booklet (inserted)
- the OCR 12-page Answer Booklet (OCR12 sent with general stationery)

**You may use:**

- a ruler (cm/mm)
- a scientific and graphical calculator

## INSTRUCTIONS

- The Resource Booklet will be found inside this document.
- Use black ink. You may use an HB pencil for graphs and diagrams.
- Section A: Choose **two topics** and answer **both parts** of the question from **each** topic.
- Section B – Synoptic questions: Choose **two topics** and answer **the** question from **each** selected topic. You must use your knowledge and understanding from across the course of study to answer these questions.
- Section C: Choose **two topics** and answer **one** question from **each** topic.
- Write your answer to each question in the Answer Booklet.
- Additional paper may be used if required but you must clearly show your candidate number, centre number and question number(s).
- Do **not** write in the barcodes.

## INFORMATION

- The total mark for this paper is **108**.
- The marks for each question are shown in brackets [ ].
- Quality of extended responses will be assessed in questions marked with an asterisk (\*).
- This document consists of **8** pages.

**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** in showing the relationship between Gross Domestic Product (GDP) per person and total CO<sub>2</sub> emissions for selected countries. [3]
- (b) Explain two ways that natural forcing has driven climate change in the geological past. [6]

**Topic 3.2 – Disease Dilemmas**

- 2 (a) Identify three limitations of **Fig. 2** in showing the number of deaths from cholera in 2004. [3]
- (b) Explain how disease diffusion can take place. [6]

**Topic 3.3 – Exploring Oceans**

- 3 (a) Identify three limitations of **Fig. 3** as a source of information about humpback whale populations. [3]
- (b) Explain variations in nutrient supply within oceans. [6]

**Topic 3.4 – Future of Food**

- 4 (a) Identify three limitations of **Fig. 4** as a source of information about the impact of food production on physical environments. [3]
- (b) Explain the theoretical views of food security offered by Malthus and Boserup. [6]

**Topic 3.5 – Hazardous Earth**

- 5 (a) Identify three limitations of **Fig. 5** as a source of information about impacts of earthquakes on people. [3]
- (b) Explain the features of explosive volcanic eruptions. [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 can affect weathering and erosion processes within any **one** landscape system you have studied. [12]

**Topic 3.2 – Disease Dilemmas**

- 7 Examine how disease risks can impact place profiles. [12]

**Topic 3.3 – Exploring Oceans**

- 8 Assess ways in which ocean processes influence the carbon cycle. [12]

**Topic 3.4 – Future of Food**

- 9 Assess how food security can be affected by issues of **either** human rights **or** territorial integrity. [12]

**Topic 3.5 – Hazardous Earth**

- 10 Assess how tectonic hazards impact **either** global trade **or** global migration. [12]

**Section C**

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

**Topic 3.1 – Climate Change**

**11\*** To what extent is the debate over climate change influenced by a variety of agendas? **[33]**

**Or**

**12\*** 'A country's decisions on mitigation strategies to cope with climate change are mainly influenced by economic factors.' How far do you agree with this statement? **[33]**

**Topic 3.2 – Disease Dilemmas**

**13\*** 'Physical factors will determine the future global pattern of disease prevalence.' Discuss. **[33]**

**Or**

**14\*** Assess the view that grass roots strategies are the most effective ways of dealing with disease risk and eradication. **[33]**

**Topic 3.3 – Exploring Oceans**

**15\*** 'Economic factors account for rising levels of oceanic pollution.' Discuss. **[33]**

**Or**

**16\*** To what extent does the successful management of oceanic resources require international cooperation? **[33]**

**Topic 3.4 – Future of Food**

**17\*** Examine the extent to which globalisation impacts on the food industry. **[33]**

**Or**

**18\*** Evaluate the effectiveness and sustainability of techniques used to improve food security. **[33]**

**Topic 3.5 – Hazardous Earth**

**19\*** Assess the extent to which the decision to live in tectonically active locations is determined by economic factors.

**[33]**

**Or**

**20\*** To what extent is it possible to manage hazards arising from earthquakes?

**[33]**

**END OF QUESTION PAPER**



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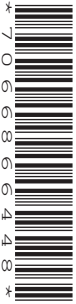
# A Level Geography

**H481/03** Geographical debates

Resource Booklet

**Thursday 14 June 2018 – Afternoon**

**Time allowed: 2 hours 30 minutes**



## INFORMATION FOR CANDIDATES

- The questions tell you which resources you need to use.
- This document consists of **4** pages.

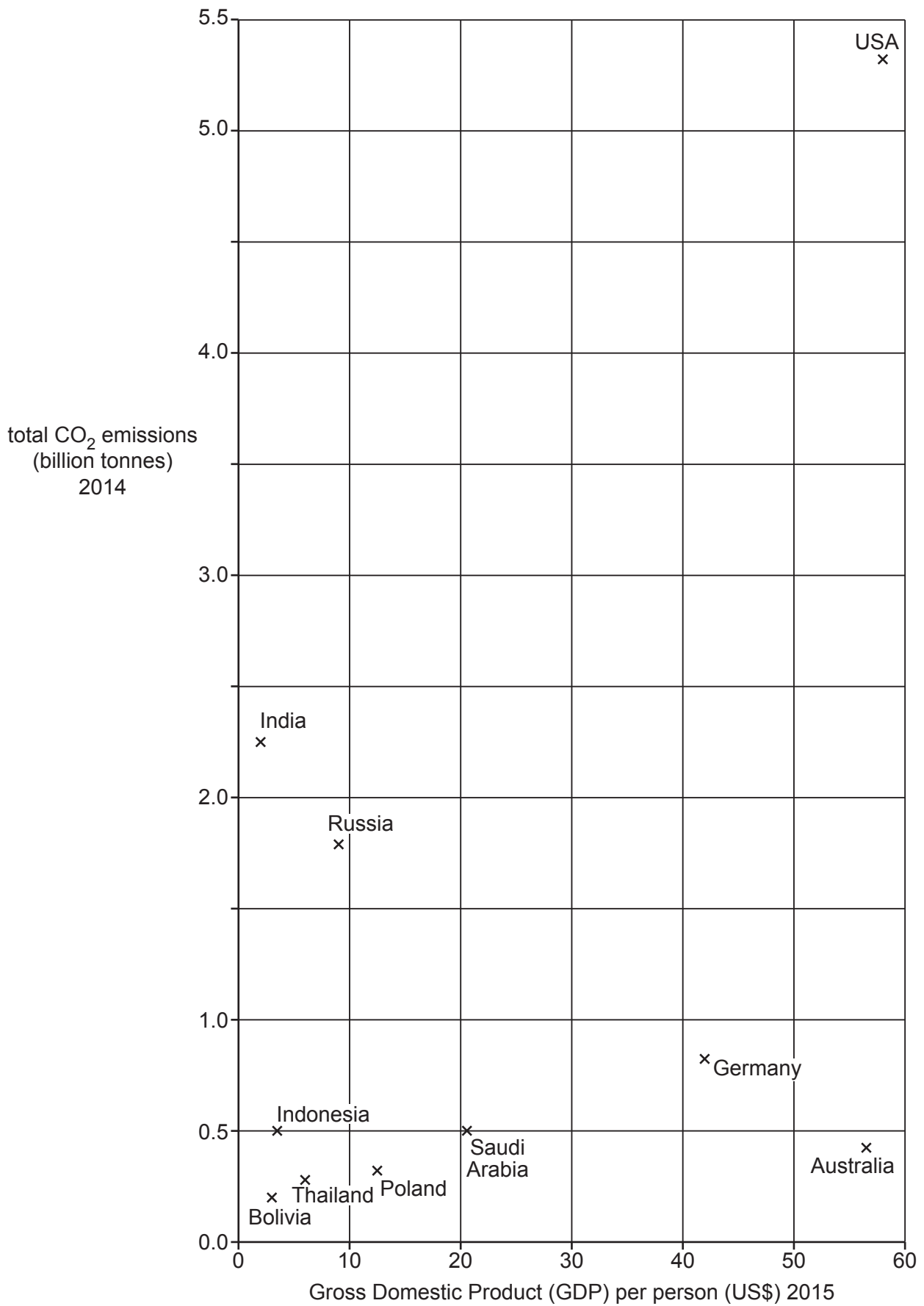
## CONTENTS OF RESOURCE BOOKLET

- Fig. 1 – The relationship between Gross Domestic Product (GDP) per person and total CO<sub>2</sub> emissions
- Fig. 2 – Number of deaths from cholera in 2004
- Fig. 3 – Numbers of humpback whales in selected ocean areas
- Fig. 4 – Crop spraying in Madhya Pradesh, India
- Fig. 5 – An extract adapted from a text on tectonic hazards

## INSTRUCTIONS TO EXAMS OFFICER/INVIGILATOR

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Fig. 1 – The relationship between Gross Domestic Product (GDP) per person and total CO<sub>2</sub> emissions



**Fig. 2 – Number of deaths from cholera in 2004**



The size of the country represents the proportion of all cholera deaths in the world that occurred in that country.

Colours are used to distinguish between different countries.

**Fig. 3 – Numbers of humpback whales in selected ocean areas**

Ocean area	Estimate of number	Year estimate made
Antarctic	42 000	1997/8
South-Eastern Pacific	6 200	2005
Off Western Australia	29 000	2008
Off Western Africa	9 800	2005
Western North Atlantic	11 600	1992/3
Off Western Greenland	2 700	2007
North Pacific	22 000	2007



**Fig. 4 – Crop spraying in Madhya Pradesh, India**



**Fig. 5 – An extract adapted from a text on tectonic hazards**

During the course of the twentieth century nearly 2 million people are estimated to have been killed in earthquakes. Some of these deaths resulted from very high energy events such as occurred in Sichuan province, China in May 2008. 87 150 people were killed or missing. The threat from earthquakes has continued into the twenty-first century. In Nepal in April 2015 about 8800 fatalities were recorded from the 7.8Mw (moment magnitude) 'quake. Earthquakes releasing less energy have also killed.

The economic impacts also vary. The overall damage of the Nepalese earthquake is estimated at about US\$10 billion whereas in Sichuan the reconstruction cost was put at US\$150 billion.

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