

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS  
AS LEVEL**

**H081/02**

**GEOGRAPHY**

**Geographical debates**

**THURSDAY 24 MAY 2018: Morning**

**TIME ALLOWED: 1 hour 30 minutes  
plus your additional time allowance**

**MODIFIED ENLARGED**

**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 or graphical calculator**

**READ INSTRUCTIONS OVERLEAF**



## **INSTRUCTIONS**

**The Resource Booklet will be found with this document.**

**Use black ink. You may use an HB pencil for graphs and diagrams.**

**Section A: Choose ONE topic and answer ALL parts of the question in the topic.**

**Section B – Synoptic questions: Choose ONE topic and answer ALL parts of the question in the topic. You must use your knowledge and understanding from across the course of study to answer these questions.**

**Section C: Choose ONE topic and answer ONE question in the topic.**

**Write your answers in the Answer Booklet. The question number(s) must be clearly shown.**

## **INFORMATION**

**The total mark for this paper is 68.**

**The marks for each question are shown in brackets [ ].**

**Quality of extended responses will be assessed in questions marked with an asterisk (\*).**

## **SECTION A**

**Choose ONE topic and answer ALL parts of the question in the topic.**

### **Topic 2.1 Climate Change**

- 1 (a) Explain two methods used to reconstruct past climates. [4]**
- (b) Suggest how changes in atmospheric factors influence the global mean energy balance. [6]**
- (c) Study FIG. 1, which shows carbon dioxide emissions in 2013 (metric tons per capita) for a number of countries, and one stage of the standard deviation calculation.**
- (i) Using the data from FIG. 1 and the formula provided, calculate the standard deviation value. You must show your working. Give your answer correct to 1 decimal place. [4]**
- (ii) Using evidence from FIG. 1, analyse reasons for differences in carbon dioxide emissions between countries. [6]**
- (d) ‘The media is as influential in the climate change debate as scientific evidence.’ How far do you agree with this statement? [12]**

## **Topic 2.2 Disease Dilemmas**

- 2 (a) Explain two ways physical barriers negatively affect disease mitigation. [4]**
- (b) Suggest how rising standards of living influence a country's epidemiological transition. [6]**
- (c) Study FIG. 2, which shows neonatal mortality rates per 1000 live births in 2013 for a number of countries, and one stage of the standard deviation calculation.**
- (i) Using the data from FIG. 2 and the formula provided, calculate the standard deviation value. You must show your working. Give your answer correct to 1 decimal place. [4]**
- (ii) Using evidence from FIG. 2, analyse reasons for differences in neonatal mortality rates between countries. [6]**
- (d) 'Disease vectors are influenced more by physical factors than by human factors.' How far do you agree with this statement? [12]**

## **Topic 2.3 Exploring Oceans**

- 3 (a) Explain two ways ocean ecosystems are influenced by changes in temperature. [4]**
- (b) Suggest how pollution can impact marine organisms. [6]**
- (c) Study FIG. 3, which shows the amount of cargo imported via oceans (in millions TEUs) in 2014 for a number of countries, and one stage of the standard deviation calculation.**
- (i) Using the data from FIG. 3 and the formula provided, calculate the standard deviation value. You must show your working. Give your answer correct to 1 decimal place. [4]**
- (ii) Using evidence from FIG. 3, analyse reasons for differences in the amount of cargo imported via oceans between countries. [6]**
- (d) 'Treating the oceans as 'global commons' has been detrimental to them.' How far do you agree with this statement? [12]**

## **Topic 2.4 Future of Food**

- 4 (a) Explain two ways globalisation of the food industry has created opportunities. [4]**
- (b) Suggest why the pattern of food security within a country is dynamic. [6]**
- (c) Study FIG. 4, which shows the Global Food Security Index score in 2016 for a number of countries, and one stage of the standard deviation calculation.**
- (i) Using the data from FIG. 4 and the formula provided, calculate the standard deviation value. You must show your working. Give your answer correct to 1 decimal place. [4]**
- (ii) Using evidence from FIG. 4, analyse reasons for differences in the Global Food Security Index score between countries. [6]**
- (d) 'Food security is most likely to be affected by human factors.' How far do you agree with this statement? [12]**

## **Topic 2.5 Hazardous Earth**

- 5 (a) Explain two pieces of evidence that support the theory of continental drift. [4]**
- (b) Suggest how volcanic hazards are affected by types of volcanic eruption. [6]**
- (c) Study FIG. 5, which shows the number of deaths from volcanoes in thousands from 1900 – 2014 for a number of countries, and one stage of the standard deviation calculation.**
- (i) Using the data from FIG. 5 and the formula provided, calculate the standard deviation value. You must show your working. Give your answer correct to 1 decimal place. [4]**
- (ii) Using evidence from FIG. 5, analyse reasons for differences in the number of deaths from volcanoes between countries. [6]**
- (d) ‘Volcanic hazards are easier to manage than earthquake hazards.’ How far do you agree with this statement? [12]**

## **SECTION B – Synoptic questions**

**Choose ONE topic and answer ALL parts of the question in the topic. You must use your knowledge and understanding from across the course of study to answer these questions.**

### **Topic 2.1 Climate Change**

- 6 (a) With reference to FIG. 6, suggest how the impact of climate change on landscape systems might vary globally. [8]**
- (b) Examine how climate change could influence the informal representation of place. [8]**

### **Topic 2.2 Disease Dilemmas**

- 7 (a) With reference to FIG. 7, suggest how the healthcare mitigation strategies of organisations might impact social inequality in places. [8]**
- (b) Examine how patterns of disease and landscape systems can both be influenced by climatic factors. [8]**

### **Topic 2.3 Exploring Oceans**

- 8 (a) With reference to FIG. 8, suggest how oceans are used in determining place profiles. [8]**
- (b) Examine how oceans and landscape systems can both be influenced by climate change. [8]**



## **Topic 2.4 Future of Food**

- 9 (a) With reference to FIG. 9 suggest how food security might be affected by migration to cities. [8]**
- (b) Examine how food security can be negatively affected by landscape systems. [8]**

## **Topic 2.5 Hazardous Earth**

- 10 (a) With reference to FIG. 10, suggest how tectonically active areas are important in influencing the representation of place. [8]**
- (b) Examine how responses to tectonic hazards might be influenced by landscape systems. [8]**

## **SECTION C**

**Choose ONE topic and answer ONE question in the topic.**

### **Topic 2.1 Climate Change**

**11\* 'There is strong evidence that the world has warmed since the late-nineteenth century'. To what extent is this true? [20]**

**OR**

**12\* Discuss the view that the most effective responses to climate change require more than international directives. [20]**

### **Topic 2.2 Disease Dilemmas**

**13\* Evaluate the success of mitigation and response strategies for a named noncommunicable disease. [20]**

**OR**

**14\* Discuss the view that global mobility makes it more difficult to respond to disease diffusion. [20]**

## **Topic 2.3 Exploring Oceans**

**15\* To what extent could impacts of climate change on high latitude oceans provide opportunities as well as threats? [20]**

**OR**

**16\* Assess the extent to which oceans have become locations of conflict. [20]**

## **Topic 2.4 Future of Food**

**17\* To what extent are shocks to the food system the result of natural rather than human factors? [20]**

**OR**

**18\* ‘International co-operation is essential to guarantee future food security for all nations’. Discuss. [20]**

## **Topic 2.5 Hazardous Earth**

**19\* To what extent are impacts of tectonic activity related to a country’s level of development? [20]**

**OR**

**20\* Assess the extent to which people’s ability to cope with tectonic hazards has changed over time. [20]**

**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](http://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 Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.**

**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.**