OCR
Oxford Cambridge and RSA

AS Level Geography
H081/02 Geographical debates

Thursday 24 May 2018 – Morning
Time allowed: 1 hour 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 or 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 **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.
- Do **not** write in the barcodes.

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 (*).
- This document consists of **8** pages.

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]

6

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

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