

Tuesday 13 October 2020 – Afternoon

AS Level Geography

H081/02 Geographical debates

Time allowed: 1 hour 30 minutes

**You must have:**

- the OCR 12-page Answer Booklet
- the Resource Booklet (inside this document)

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 **one** topic. Answer **all** the parts of the question for the topic.
- Section B: Choose **one** topic. Answer **all** the parts of the question for the topic.
- Section C: Choose **one** topic. Answer **one** question from the topic.
- Use the Resource Booklet to answer the questions in Sections A and B.

INFORMATION

- The total mark for this paper is **68**.
- 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 **one** topic. Answer **all** the parts of the question for the topic.

Topic 2.1 Climate Change

1 (a) Explain **two** ways in which continental drift has influenced past climates. [4]

(b) Examine the role of international organisations in response to climate change. [6]

(c) Study **Fig. 1**, which shows the Columbia Glacier in Alaska in 2009 and 2015.

(i) Using evidence from **Fig. 1**, identify evidence that indicates climate change between 2009 and 2015. [4]

(ii) Using evidence from **Fig. 1**, analyse reasons for differences between the two photographs. [6]

(d) 'The influence of positive feedback makes predicting climate change difficult.' To what extent do you agree? [12]

Topic 2.2 Disease Dilemmas

2 (a) Explain **two** ways in which relief of land can affect the spread of diseases. [4]

(b) Examine the role of global organisations in providing international strategies to combat disease. [6]

(c) Study **Fig. 2**, which shows two photographs of healthcare challenges in LIDCs.

(i) Using evidence from **Fig. 2**, identify evidence of healthcare challenges faced by government hospitals in LIDCs. [4]

(ii) Using evidence from **Fig. 2**, analyse reasons why grassroots strategies play a vital role in combating disease risk. [6]

(d) 'Disease epidemics pose the greatest health problem in developing countries.' To what extent do you agree? [12]

Topic 2.3 Exploring Oceans

3 (a) Explain **two** ways in which ocean basins can change in size over time. [4]

(b) Examine the use of international frameworks in the management of ocean resources. [6]

(c) Study **Fig. 3**, which shows part of the Great Barrier Reef, Australia, in 2009 and 2010.

(i) Using evidence from **Fig. 3**, identify evidence of change in this coral reef between 2009 and 2010. [4]

(ii) Using evidence from **Fig. 3**, analyse reasons for differences identified in (c)(i). [6]

(d) 'Piracy poses the greatest political challenge to the use of oceans in the 21st century.' To what extent do you agree? [12]

Topic 2.4 Future of Food

4 (a) Explain **two** ways in which soil characteristics can affect food security. [4]

(b) Examine the role of food retailers in influencing the global food system. [6]

(c) Study **Fig. 4**, which shows a fenced area of the Karoo Desert in South Africa.

(i) Using evidence from **Fig. 4**, identify differences in the vegetation either side of the fence. [4]

(ii) Using evidence from **Fig. 4**, analyse reasons for the differences identified in (c)(i). [6]

(d) 'Food aid is the least effective method for tackling food insecurity.' To what extent do you agree? [12]

Topic 2.5 Hazardous Earth

5 (a) Explain **two** causes of volcanic activity at hot spots. [4]

(b) Examine how and why the frequency of tectonic hazards globally has changed over time. [6]

(c) Study **Fig. 5**, which shows the town of Amatrice in central Italy before and after the 2016 earthquake.

(i) Using evidence from **Fig. 5**, identify evidence of the impact of the 2016 earthquake. [4]

(ii) Using evidence from **Fig. 5**, analyse strategies that could be used to manage hazards from earthquakes in Advanced Countries. [6]

(d) 'Tsunamis are the most damaging hazard generated by earthquakes.' To what extent do you agree? [12]

SECTION B – Synoptic questions

Choose **one** topic. Answer **all** the parts of the question for 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 rising sea level might influence placemaking. [8]

(b) Examine how increases in global mean temperatures can influence weathering processes within **one** landscape system that you have studied. [8]

Topic 2.2 Disease Dilemmas

7 (a) With reference to **Fig. 7**, suggest how opportunities for disease mitigation can be influenced by the rebranding of a place. [8]

(b) Examine how relocation diffusion of diseases could be influenced by human activities in **one** landscape system that you have studied. [8]

Topic 2.3 Exploring Oceans

8 (a) With reference to **Fig. 8**, suggest how high levels of biodiversity in inter-tidal ecosystems can influence socio-economic place characteristics. [8]

(b) Examine how far the impacts of climate change are the same for an island community and **one** landscape system that you have studied. [8]

Topic 2.4 Future of Food

9 (a) With reference to **Fig. 9**, suggest how **two** strategies to improve food security could affect socio-economic place characteristics in developing countries. [8]

(b) Examine how the globalisation of the food industry impacts on human activities in **one** landscape system that you have studied. [8]

Topic 2.5 Hazardous Earth

10 (a) With reference to **Fig. 10**, suggest how earthquake damage and social inequality are linked. [8]

(b) Examine how far people's choice of where to live is influenced by the same factors for volcanically active regions and **one** landscape system that you have studied. [8]

SECTION C

Choose **one** topic. Answer **one** question from the topic.

Topic 2.1 Climate Change

11* To what extent has the global balance of anthropogenic emissions of greenhouse gases changed in recent history? **[20]**

Or

12* Examine the extent to which different stages of economic development affect socio-economic and environmental impacts of climate change. **[20]**

Topic 2.2 Disease Dilemmas

13* 'At a national scale the socio-economic impacts of a communicable disease are more significant than they are for a non-communicable disease.' Discuss. **[20]**

Or

14* 'Use of medicines from nature continues to be an essential part of disease mitigation.' How far do you agree with this statement? **[20]**

Topic 2.3 Exploring Oceans

15* 'The opportunities arising from the use of ocean resources greatly outweigh the threats.' How far do you agree with this statement? **[20]**

Or

16* 'Plastic is the most problematic ocean pollutant of the 21st century.' Discuss. **[20]**

Topic 2.4 Future of Food

17* Examine the view that extreme weather events caused by climate change have the greatest impact on food security. **[20]**

Or

18* 'The role and responsibilities of agribusinesses have had a positive influence on the global food system.' How far do you agree with this statement? **[20]**

Topic 2.5 Hazardous Earth

19* Examine the view that information collected from the sea floor provides compelling evidence for continental drift. **[20]**

Or

20* 'Effective management of volcanic eruptions prevents disasters.' To what extent do you agree with this statement? **[20]**

END OF QUESTION PAPER

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