GradeMax

Please check the examination details below before entering your candidate information

Candidate surname	Other names

Pearson Edexcel
International
Advanced Level

Centre Number | | | | | |

Candidate Number | | | | |

Monday 11 January 2021

Afternoon (Time: 1 hour 45 minutes) | Paper Reference **WGE01/01**

Geography

International Advanced Subsidiary
Unit 1: Global Challenges

You must have:
Resource Booklet (enclosed)

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions in Section A. Answer **either** Question 5 **or** Question 6 in Section B.
- Answer the questions in the spaces provided
  – *there may be more space than you need.*
- Calculators may be used.

Information

- The total mark for this paper is 90.
- The marks for **each** question are shown in brackets
  – *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

Turn over ▶

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SECTION A

You must use the Resource Booklet

Answer ALL questions in this section. Write your answers in the spaces provided.

Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.

1 Study Figure 1 in the Resource Booklet.

(a) (i) Which of these defences protects against a tsunami with a 200-year return period?

(1)

☒	**A** Elevated road
☒	**B** Tsunami wall
☒	**C** Evacuation route to high ground
☒	**D** Forested park on embankments

(ii) Explain the role of **two** of the tsunami defences shown in Figure 1.

(4)

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(iii) Explain how some earthquakes can generate tsunamis.

(2)

(b) Describe **one** scale that measures the magnitude of earthquakes.

(2)

(c) Explain why deaths from natural disasters are falling but numbers of people affected by disasters are rising.

(6)

(Total for Question 1 = 15 marks)

2 Study Figure 2 in the Resource Booklet.

(a) (i) Identify the year with the highest number of sunspots.

(1)

☒	**A** 1920
☒	**B** 1958
☒	**C** 1963
☒	**D** 1984

(ii) Describe the relationship between the number of sunspots and temperature anomalies shown on Figure 2.

(4)

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(b) Explain how tree rings and pollen records provide evidence for past climate change.

(4)

Tree rings

Pollen records

(c) Explain why adaptation as a response to future climate change will be possible in some locations but not in others.

(6)

(Total for Question 2 = 15 marks)

3 Study Figure 3 in the Resource Booklet.

(a) (i) Which European destination is furthest from Addis Ababa?

(1)

(ii) Suggest **one** way the international flights shown may benefit the economy of Ethiopia.

(2)

(b) Explain **one** reason for high-skill elite migration to global hubs.

(3)

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(c) Explain **one** way that globalisation in emerging megacities can have a negative impact on the environment.

(3)

(d) Explain how different groups can help meet the demand for housing in rapidly growing urban areas.

(6)

(Total for Question 3 = 15 marks)

4 Study Figure 4 in the Resource Booklet.

(a) (i) Which country has the greatest economic dependency on remittances?

(1)

(ii) Describe the relationship between remittances as a percentage of total GDP and income per person.

(2)

(iii) Explain **one** disadvantage of being dependent on remittances.

(2)

(b) Explain **two** ways that governments can encourage globalisation.

(4)

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(c) Explain the social and environmental problems caused by deindustrialisation in developed countries.

(6)

(Total for Question 4 = 15 marks)

TOTAL FOR SECTION A = 60 MARKS

SECTION B

Answer ONE question in this section – EITHER Question 5 OR Question 6.

If you answer Question 5 put a cross in the box ☒ .

Use the evidence provided in the Resource Booklet, your own ideas and examples.

5 Study Figure 5 in the Resource Booklet.

(a) Explain why some areas in the Asia-Pacific region are more vulnerable to sea level rise than others.

(10)

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(b) To what extent do physical factors explain the global pattern of hydro-meteorological disasters?

(20)

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(Total for Question 5 = 30 marks)

If you answer Question 6 put a cross in the box ☒ .

6 Study Figure 6 in the Resource Booklet

(a) Explain how the average population ages result in both opportunities and challenges to countries in the Asia-Pacific region.

(10)

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(b) To what extent are developments in communications technology the most important factor encouraging globalisation?

(20)

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(Total for Question 6 = 30 marks)

TOTAL FOR SECTION A = 60 MARKS
TOTAL FOR PAPER = 90 MARKS

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Pearson Edexcel International Advanced Level

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Geography

International Advanced Subsidiary
Unit 1: Global Challenges

Resource Booklet

Do not return this Resource Booklet with the question paper.

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SECTION A

The following resource relates to Question 1.

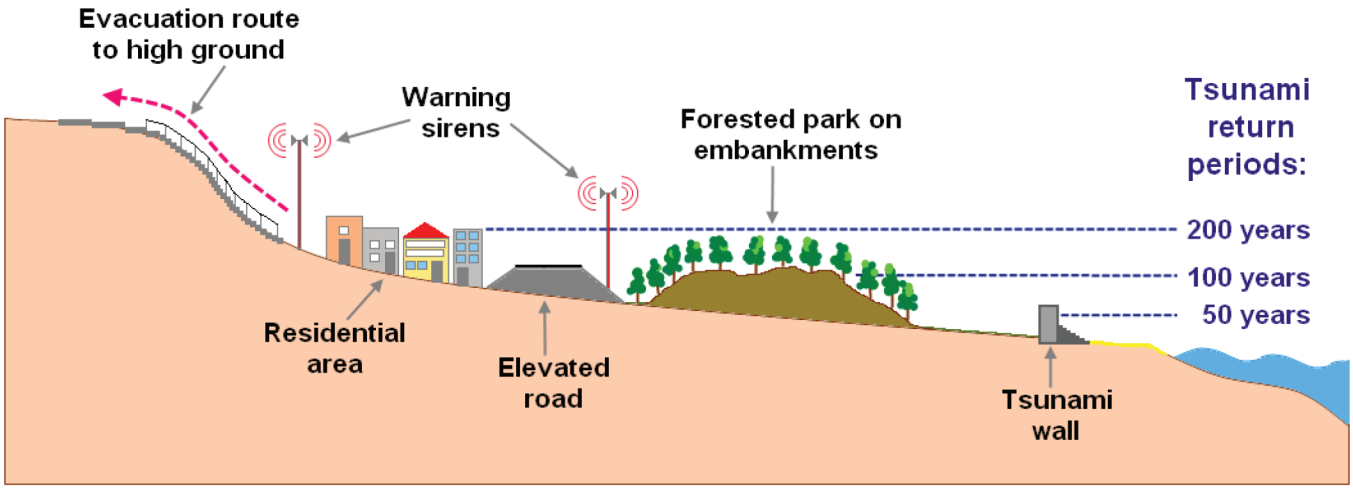


Figure 1

Tsunami defences and tsunami heights for three return periods

The following resource relates to Question 2.

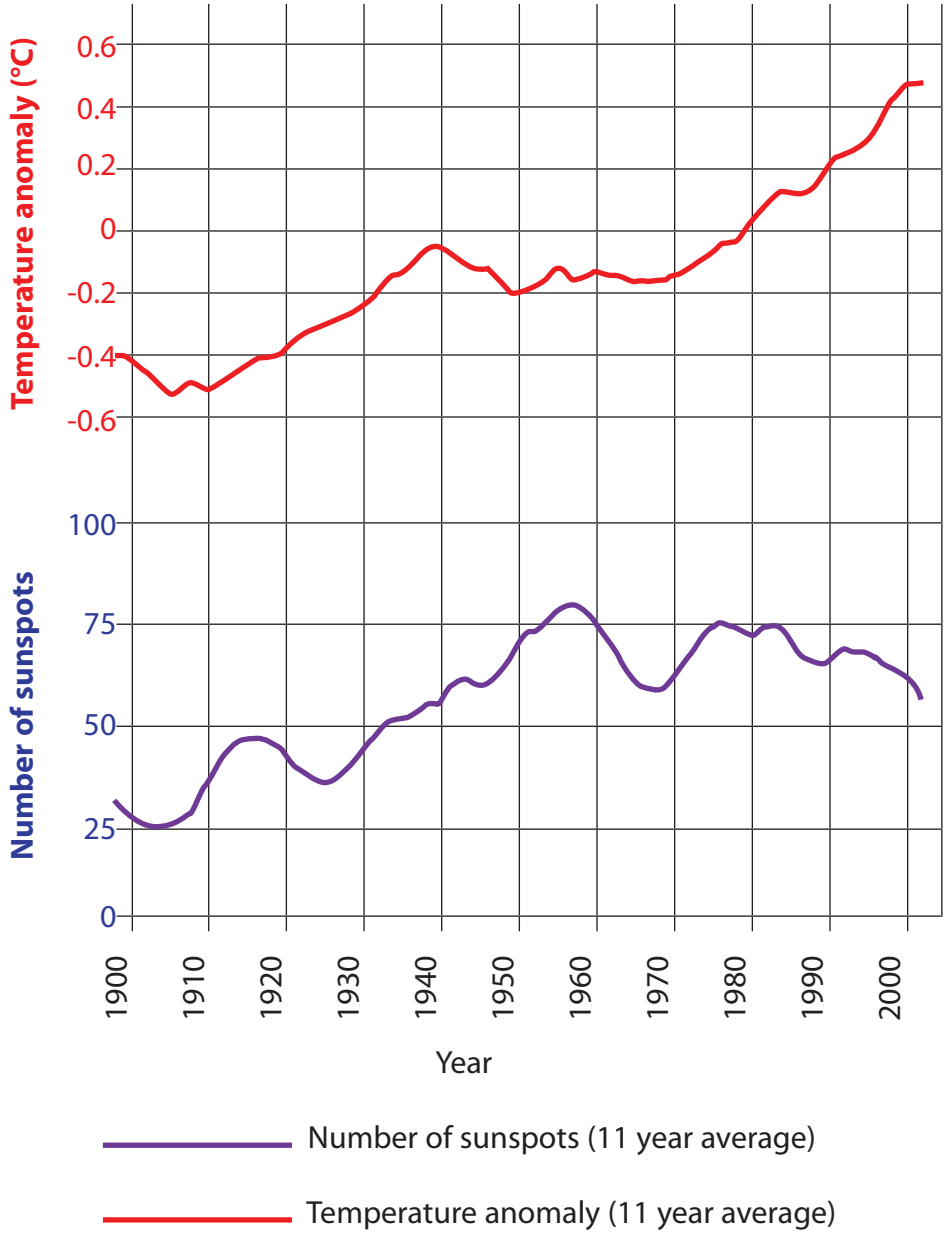


Figure 2

Sunspot numbers and global temperature anomalies, 1900–2004

The following resource relates to Question 3.



Figure 3

A route map showing direct international flights into Addis Ababa, Ethiopia

The following resource relates to Question 4.

Country	Remittances as a percentage of total GDP 2017 (%)	Income per person 2017 (US $)
Nicaragua	10.1	2,207
Guyana	7.5	4,578
Mexico	2.7	9,318
Brazil	0.1	9, 895
Argentina	0.1	14,462

Figure 4

Data on remittances and income for selected countries in Central and South America

SECTION B

The following resource relates to Question 5.

864 billion (US$) of infrastructure and property at risk from severe coastal flooding in China and Japan
Low-lying river deltas in Myanmar, India and Bangladesh are at highest risk
Islands such as the Philippines, Vietnam, Indonesia have experienced sea level increases of 3 mm per year from 1951 to 2000
Low-lying nations such as Papua New Guinea, Vanuatu and Fiji could be affected by up to 1 metre of sea level rise by 2100.

Figure 5

The impacts of sea level rise in the Asia-Pacific region

The following resource relates to Question 6.



Figure 6

Average age of the population for countries in the Asia-Pacific region

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Pearson Education Ltd. gratefully acknowledges all following sources used in preparation of this paper:

Figure 1 (Source: http://rsta.royalsocietypublishing.org/content/373/2053/20140373)

Figure 2 (Source: https://www.theguardian.com/environment/climate-consensus-97-per-cent/2015/jul/16/no-the-sun-isnt-going-to-save-us-from-global-warming#img-3)

Figure 3 (Source: https://www.travelcodex.com/airbus-a350-routes-2018/)

Figure 4 (Source: https://data.worldbank.org/indicator/BX.TRF.PWKR.DT.GD.ZS?view=map)

Figure 5 (Source: http://15146-group1-climatechange-sealevel.weebly.com/economic-impact.html)

Figure 6 (Source: http://theweek.com/articles/443122/8-maps-show-median-age-every-country-earth)