

Please check the examination details below before entering your candidate information

Candidate surname					Other names							
Pearson Edexcel					Centre Number				Candidate Number			
International Advanced Level					<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>			
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.

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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)

<input type="checkbox"/>	A Elevated road
<input type="checkbox"/>	B Tsunami wall
<input type="checkbox"/>	C Evacuation route to high ground
<input type="checkbox"/>	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)

Dotted lines for writing the answer to part (iii).

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

(2)

Dotted lines for writing the answer to part (b).

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

(6)

Dotted lines for writing the answer to part (c).

(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)

<input type="checkbox"/>	A 1920
<input type="checkbox"/>	B 1958
<input type="checkbox"/>	C 1963
<input type="checkbox"/>	D 1984

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

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

(4)

Tree rings

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Pollen records

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

(6)

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(Total for Question 2 = 15 marks)

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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.

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

(6)

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(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)

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(ii) Describe the relationship between remittances as a percentage of total GDP and income per person. (2)

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(iii) Explain **one** disadvantage of being dependent on remittances. (2)

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(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



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

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(Total for Question 5 = 30 marks)



(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

Monday 11 January 2021

Afternoon

Paper Reference **WGE01/01**

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.

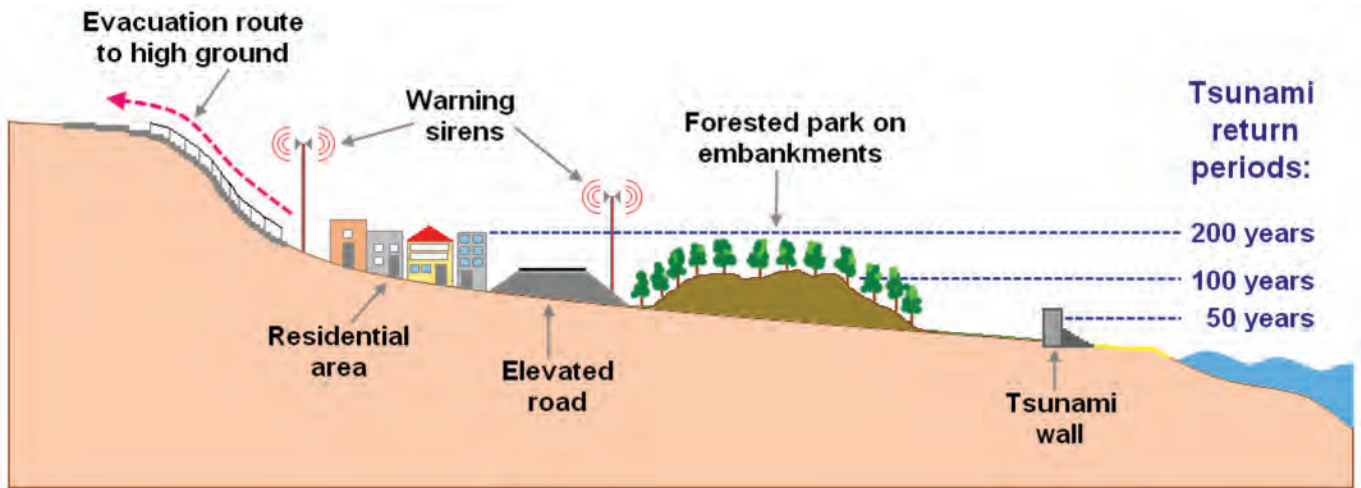


Figure 1

Tsunami defences and tsunami heights for three return periods

The following resource relates to Question 2.

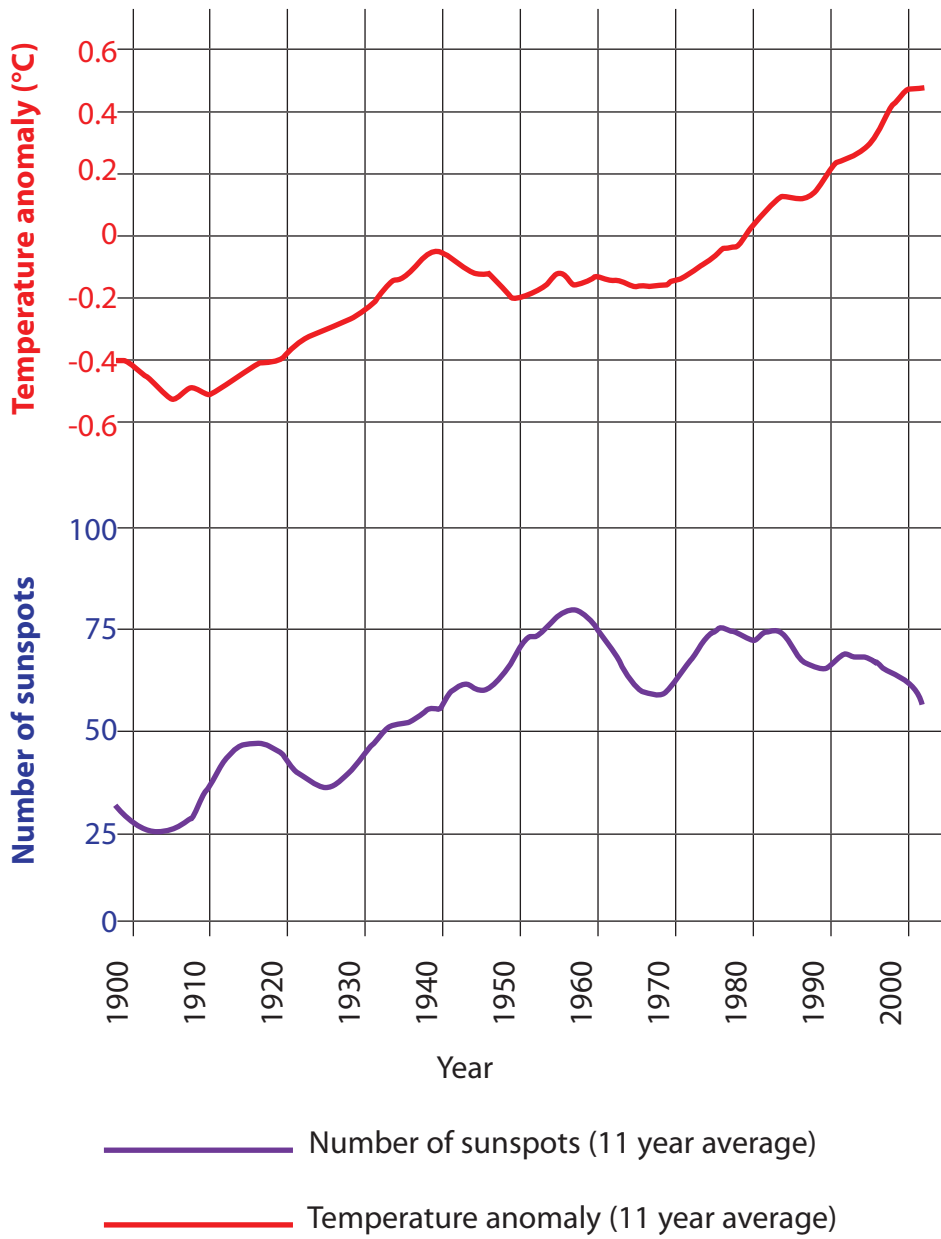


Figure 2
Sunspot numbers and global temperature anomalies, 1900–2004

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>)