

Please check the examination details below before entering your candidate information	
Candidate surname	Other names
Pearson Edexcel	Centre Number
Level 3 GCE	Candidate Number
Wednesday 22 May 2019	
Afternoon (Time: 2 hours 15 minutes)	Paper Reference 9GE0/01
Geography	
Advanced	
Paper 1	
You must have: Resource Booklet (enclosed) Ruler, calculator	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** and Section **C**.
- Answer **either** Question 2 **or** Question 3 in Section **B**.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- Calculators may be used.
- Any **calculations** must show **all** stages of **working out** and a **clear answer**.

Information

- The total mark for this paper is 105.
- 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: TECTONIC PROCESSES AND HAZARDS**Answer ALL questions in this section. Write your answers in the spaces provided.****You must use the Resource Booklet provided.**

- 1** (a) Study Figure 1 in the Resource Booklet.

This is part of an investigation into the spatial impacts of tsunami events.

- (i) Calculate the mean number of deaths recorded.

(1)

Mean =

- (ii) Calculate the median number of deaths recorded.

(1)

Median =

- (iii) Calculate the interquartile range for the number of deaths recorded.

You must show your working.

(2)

Interquartile range =

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(12)



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TOTAL FOR SECTION A = 16 MARKS

Glaciated Landscapes and Change

If you answer Question 2 put a cross in the box ☐ .

You must use the Resource Booklet provided.

- (a) Explain the contribution of glacial erosional processes to the development of this landscape.

(6)

This image shows a single sheet of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There are no other markings or text on the page.

Study Figure 2b in the Resource Booklet.

- (b) Explain the contribution of glacial deposition to the development of this landscape.

(6)

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(c) Explain why a range of approaches is needed to manage glaciated landscapes.

(8)



(d) Evaluate the view that the rate of glacier movement is mainly determined by variations in the mass balance of a glacier.

(20)

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Study Figure 3b in the Resource Booklet.

- (b) Explain the contribution of coastal deposition to the development of this landscape.

(6)

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(8)

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(d) Evaluate the view that coastal flood risks are increasing mainly because of rising sea levels.

(20)

Handwriting practice area with 20 horizontal dotted lines for the answer.

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TOTAL FOR SECTION B = 40 MARKS

SECTION C: PHYSICAL SYSTEMS AND SUSTAINABILITY**Answer ALL questions in this section. Write your answers in the spaces provided.****You must use the Resource Booklet provided.**

- 4** (a) Study Figure 4a in the Resource Booklet.

Explain **one** impact of the changes in biofuel production in Brazil on the carbon cycle.

(3)

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(b) Explain why the level of economic development affects the energy mix of countries.

(6)

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(c) Explain why there are uncertainties about future levels of carbon release from peatlands and permafrost.

(8)



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(d) Study Figure 4b in the Resource Booklet.

Assess the role of physical factors in influencing the pattern of future water stress.

(12)

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[illegible]

- (e) Evaluate the view that large-scale water management projects often create more problems than they solve for people and the environment.

(20)

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(Total for Question 4 = 49 marks)

TOTAL FOR SECTION C = 49 MARKS
TOTAL FOR PAPER = 105 MARKS



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Geography

**Advanced
Paper 1**

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.

Year	Location	Deaths recorded
1979	Colombia	600
1991	Costa Rica	2
1992	Nicaragua	170
1995	Mexico	1
1996	Peru	12
2001	Peru	26
2007	Chile	10
2007	Peru	3
2010	Chile	156
2015	Chile	8
Summary Statistics		
Number of tsunami events		10
Deaths recorded		988
Mean		
Median		
Interquartile range		

Figure 1

The number of deaths resulting from tsunami events, Eastern Pacific 1979 - 2015



SECTION B

The following resources relate to Question 2.



Figure 2a

A relict glaciated landscape



Figure 2b

A relict glaciated valley landscape



The following resources relate to Question 3.



Figure 3a

A coastal landscape



Figure 3b

A coastal plain landscape

**SECTION C**

The following resources relate to Question 4.

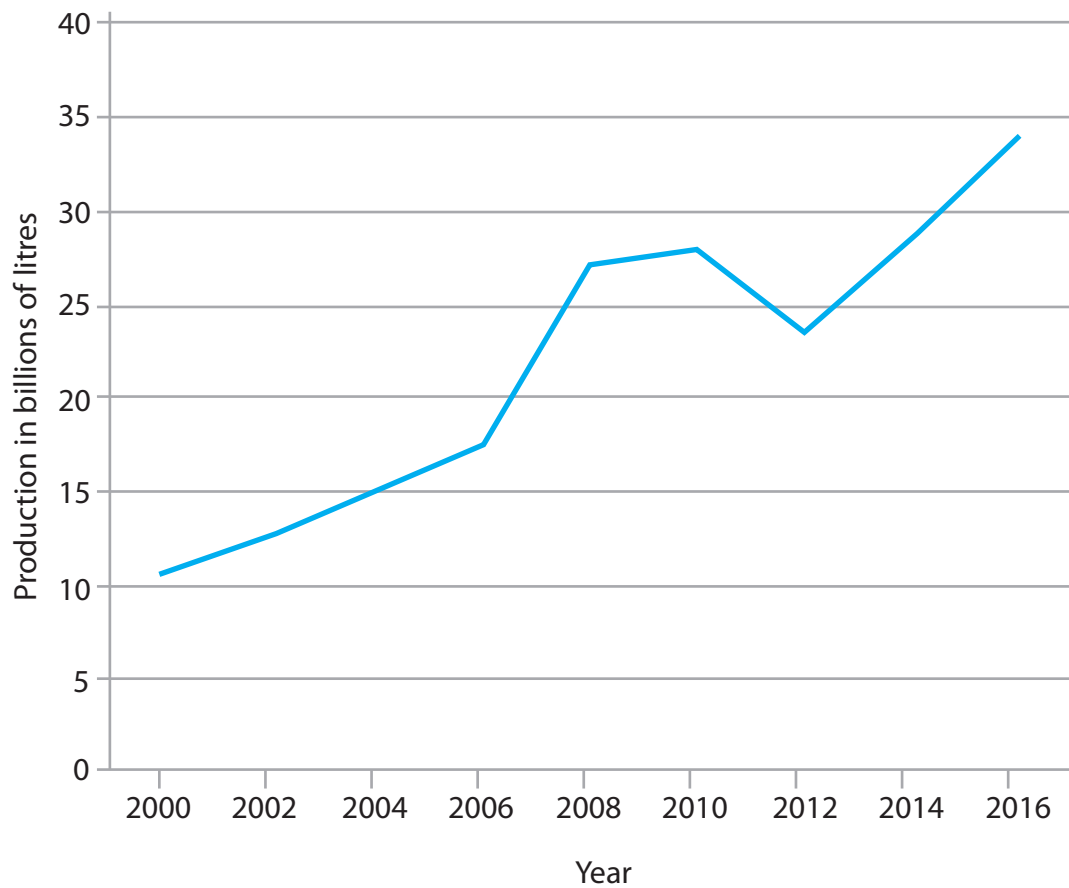


Figure 4a

Biofuel production in Brazil, the world's second largest producer, 2000-2016



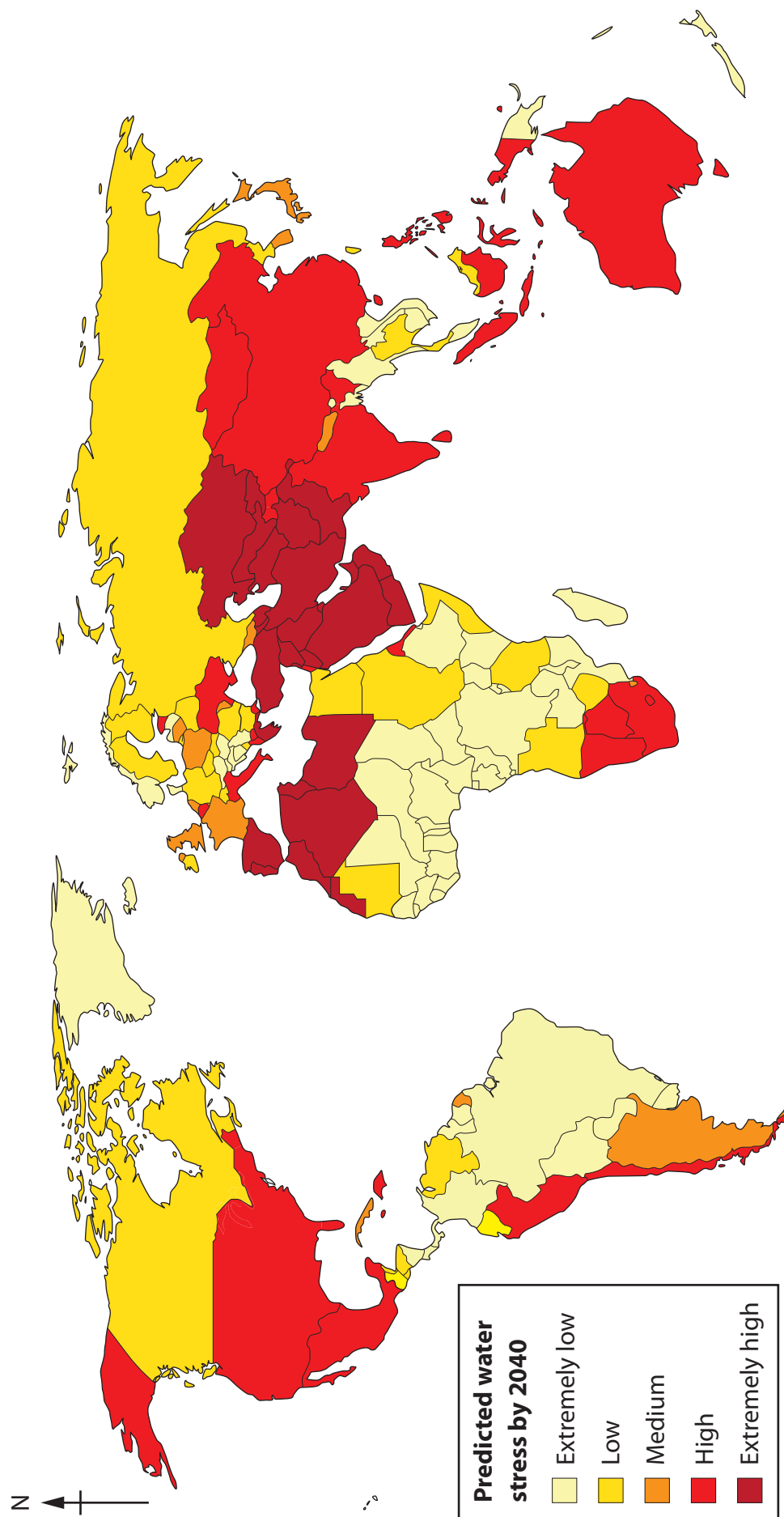


Figure 4b
Predicted world water stress, 2040



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Figure 4b Sourced from: http://www.wri.org/sites/default/files/uploads/water_stress_world_map_large.jpg

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