

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Pearson Edexcel
Level 3 GCE

Centre Number

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Candidate Number

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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.

Turn over ►

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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 =

DO NOT WRITE IN THIS AREA



(b) Assess the reasons why managing the impacts of tectonic hazards varies in its effectiveness.

(12)

Area with horizontal dotted lines for writing.

DO NOT WRITE IN THIS AREA





DO NOT WRITE IN THIS AREA

Area with horizontal dotted lines for writing.

(Total for Question 1 = 16 marks)

TOTAL FOR SECTION A = 16 MARKS



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

(8)

Handwriting practice area consisting of 20 horizontal dotted lines for writing the answer.

DO NOT WRITE IN THIS AREA



P 5 8 3 3 4 R A 0 7 2 4

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

(20)

Area with horizontal dotted lines for writing the answer.

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

Large writing area with horizontal dotted lines.





Area with horizontal dotted lines for writing.

(Total for Question 2 = 40 marks)

DO NOT WRITE IN THIS AREA



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

(8)

Handwriting practice area consisting of 20 horizontal dotted lines for writing.

DO NOT WRITE IN THIS AREA



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

(20)

Area with horizontal dotted lines for writing.

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

Large writing area with horizontal dotted lines.





Area with horizontal dotted lines for writing.

DO NOT WRITE IN THIS AREA

(Total for Question 3 = 40 marks)

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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.....

DO NOT WRITE IN THIS AREA



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

(8)

Area with horizontal dotted lines for writing the answer.

DO NOT WRITE IN THIS AREA



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

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

(12)

Area with horizontal dotted lines for writing.

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

Large empty writing area with horizontal dashed lines.



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

(20)

Area with horizontal dotted lines for writing.

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

Large writing area with horizontal dotted lines.



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

(Total for Question 4 = 49 marks)

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



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Paper 1

Resource Booklet

Do not return this Resource Booklet with the question paper.

Turn over ►

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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.

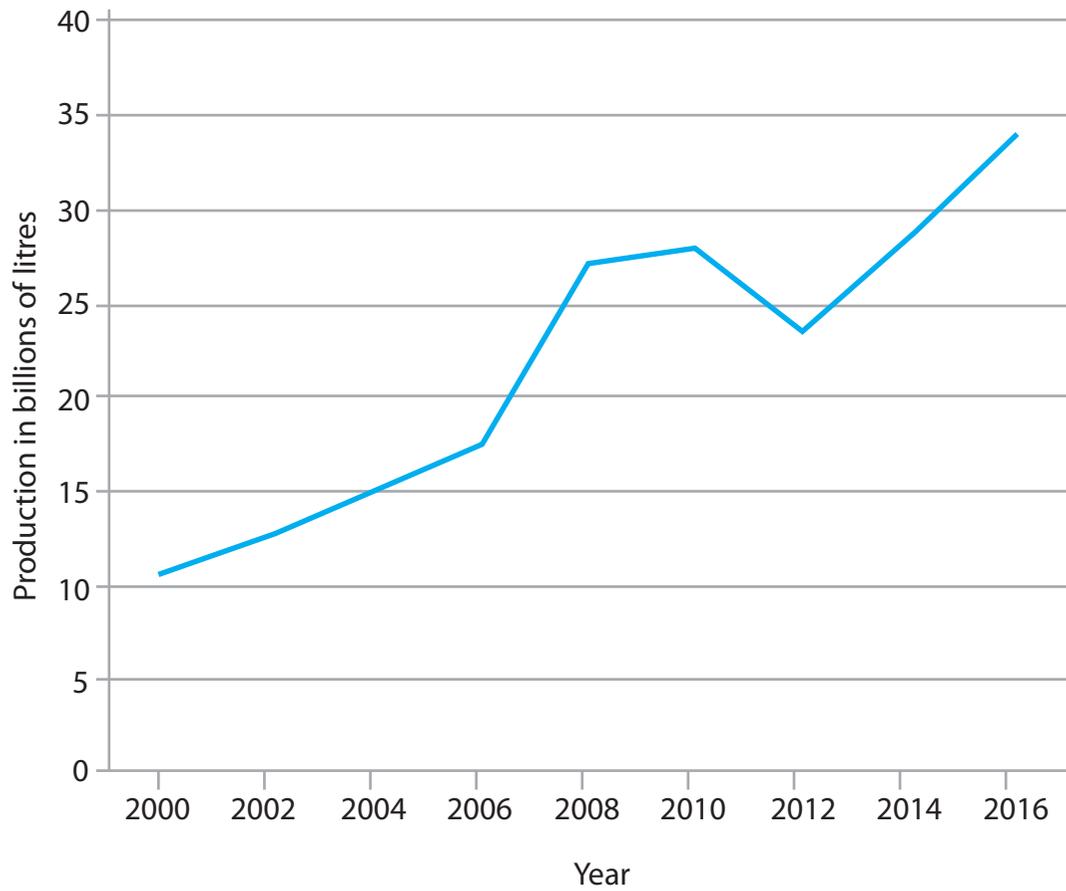


Figure 4a

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

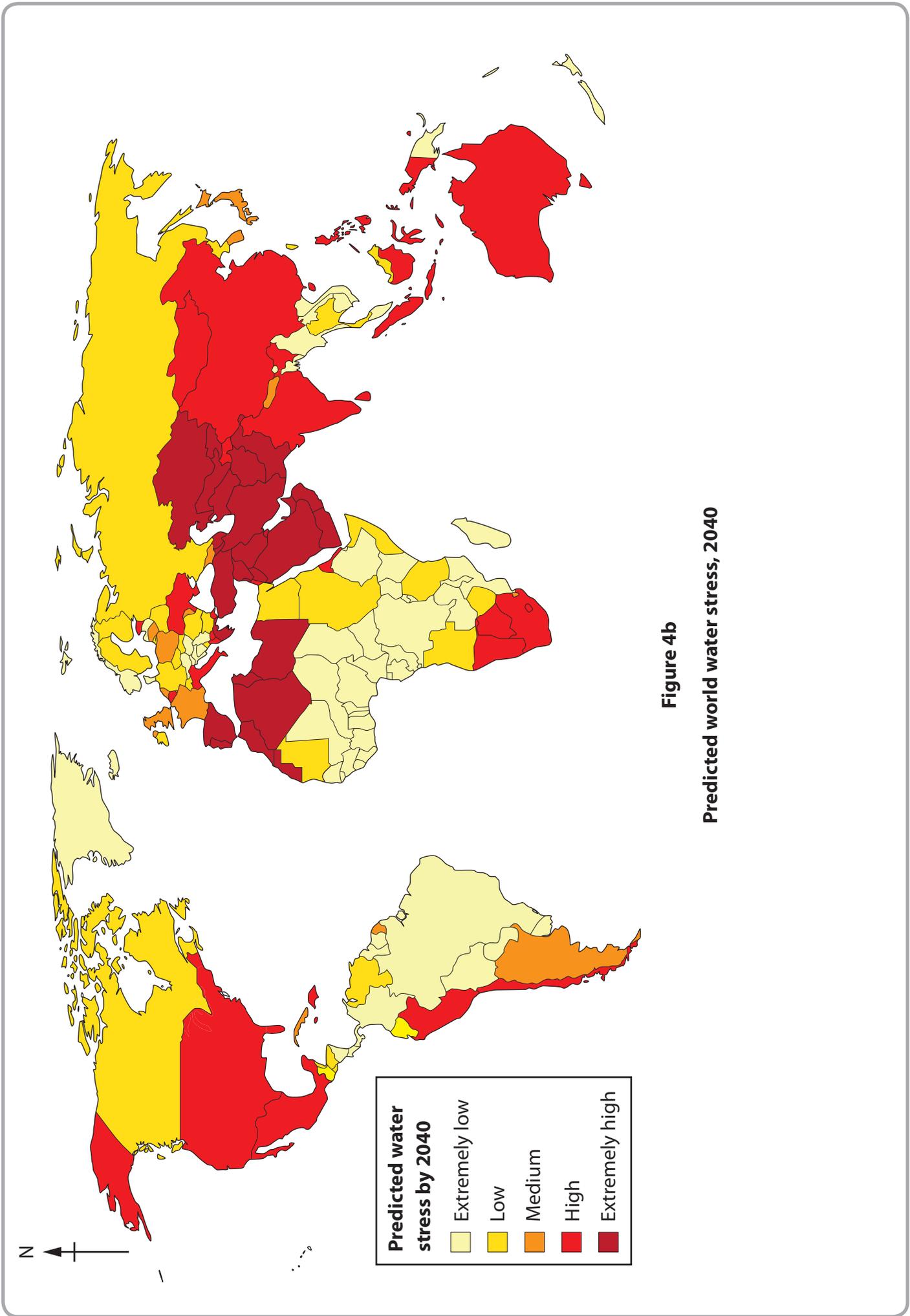


Figure 4b
Predicted world water stress, 2040

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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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