

Please check the examination details below before entering your candidate information

Candidate surname

Other names

**Pearson Edexcel**  
**International**  
**Advanced Level**

Centre Number

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Candidate Number

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**Monday 7 January 2019**

Afternoon (Time: 1 hour 45 minutes)

Paper Reference **WGE01/01**

**Geography**

**International Advanced Subsidiary**

**Paper 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) Identify the sea surface temperature anomaly at location X during El Nino. (1)

- A -4°C
- B -2°C
- C 2°C
- D 4°C

(ii) Describe the pattern of sea surface temperature anomalies between the tropics during the La Nina event. (2)

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(iii) Explain **one** way El Nino can increase the risk of flooding. (2)

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(b) Explain **one** local and **one** global action taken to reduce greenhouse gas emissions.

(4)

Local action

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Global action

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(c) Explain why adaptation to rising sea levels is easier in some locations than in others.

(6)

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2 Study Figure 2 in the Resource Booklet.

(a) (i) Identify the town that had the most rainfall during Hurricane Matthew. (1)

(ii) Other than heavy rainfall, suggest **two** hazards that might have affected Jamaica as a result of Hurricane Matthew. (4)

1 .....

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(b) Describe how the magnitude of tectonic hazards can be measured. (4)

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(c) Explain how human factors may increase the frequency of hydro-meteorological hazards.

(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) Identify the country that had the highest annual percentage change in GDP in 2015. (1)

- A** China
- B** India
- C** Russia
- D** USA

(ii) Compare the trends in annual percentage change in GDP for China and Russia between 2013 and 2016. (4)

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(b) Explain why the economies of emerging countries have grown rapidly in recent years. (4)

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(c) Explain the role Intergovernmental Organisations (IGOs) play in global trade.

(6)

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**(Total for Question 3 = 15 marks)**

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**4** Study Figure 4 in the Resource Booklet.

(a) (i) Identify the year when the share of trade for both developed and emerging countries declined.

(1)

- A** 1980
- B** 1990
- C** 2000
- D** 2010

(ii) Describe the trend in the percentage of world manufacturing trade between developed countries from 1995 to 2010.

(2)

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(b) Define the term 'global hub'.

(2)

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(Total for Question 4 = 15 marks)

**TOTAL FOR SECTION A = 60 MARKS**



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(b) Assess the extent to which climate change has mainly natural causes.

(20)

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(Total for Question 5 = 30 marks)







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(b) Assess the extent to which ageing populations are a problem for the future, not for today.

(20)

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**(Total for Question 6 = 30 marks)**

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



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**Pearson Edexcel International Advanced Level**

**Monday 7 January 2019**

Afternoon (Time: 1 hour 45 minutes)

Paper Reference **WGE01/01**

**Geography**

**International Advanced Subsidiary**

**Paper 1: Global Challenges**

**Resource Booklet**

**Do not return this Resource Booklet with the question paper.**

*Turn over* ►

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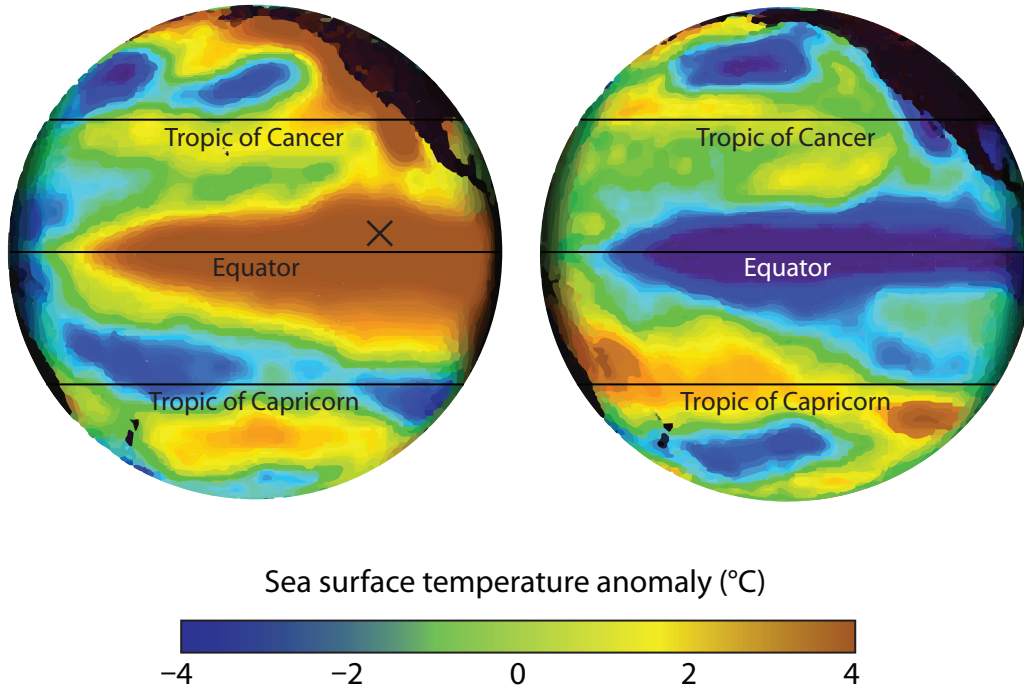
**Pearson**

**SECTION A**

**The following resource relates to Question 1.**

El Niño

La Niña



**Figure 1**

**Sea surface temperatures during El Niño and La Niña events in the Pacific Ocean**

The following resource relates to Question 2.

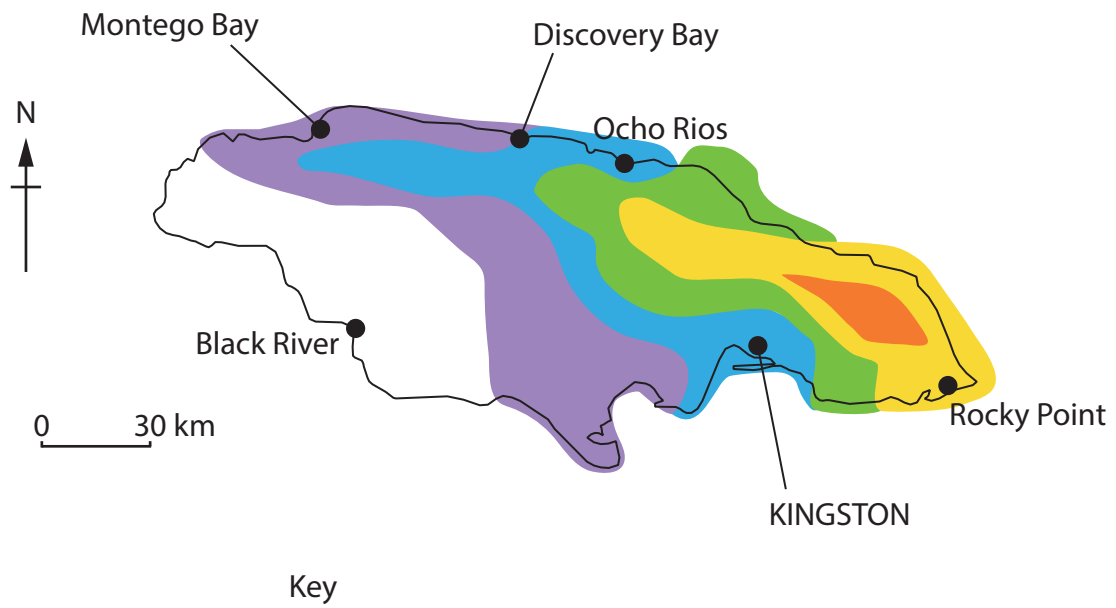


Figure 2

Rainfall levels in Jamaica during Hurricane Matthew, 2016

The following resource relates to Question 3.

<b>Annual percentage (%) change in GDP</b>				
	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
China	7.8	7.3	6.9	6.7
India	6.4	7.5	8.0	7.1
Russia	1.3	0.7	-2.8	-0.2
USA	1.7	2.4	2.6	1.6

**Figure 3**

**Annual percentage change in Gross Domestic Product (GDP)  
for selected countries, 2013–2016**

The following resource relates to Question 4.

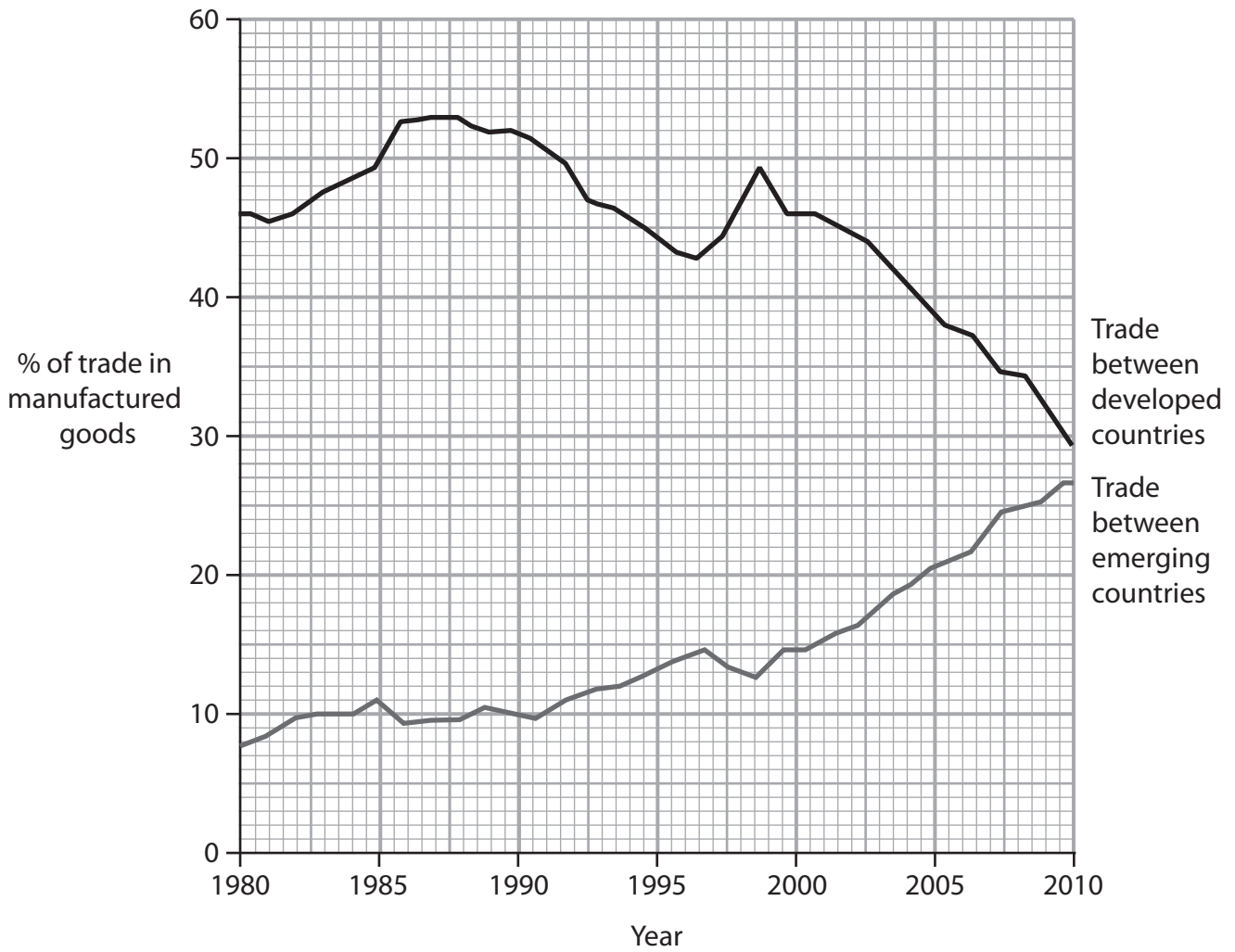


Figure 4

Share of world trade in manufactured goods

## SECTION B

The following resource relates to Question 5.

Top five countries by number of deaths from natural disasters

Nepal	8,831	Earthquake
Guatemala	627	Landslide
India	325	Flood
Pakistan	280	Earthquake
Malawi	278	Flood

Top five countries by number of people affected by natural disasters

India	16,558,354
Ethiopia	10,210,600
Nepal	5,640,301
Bangladesh	4,452,553
Philippines	3,834,514

Top five countries by economic losses from natural disasters (US \$ billions)

United States	24.9
China	13.7
Nepal	5.2
United Kingdom	3.6
India	3.3

**Figure 5**

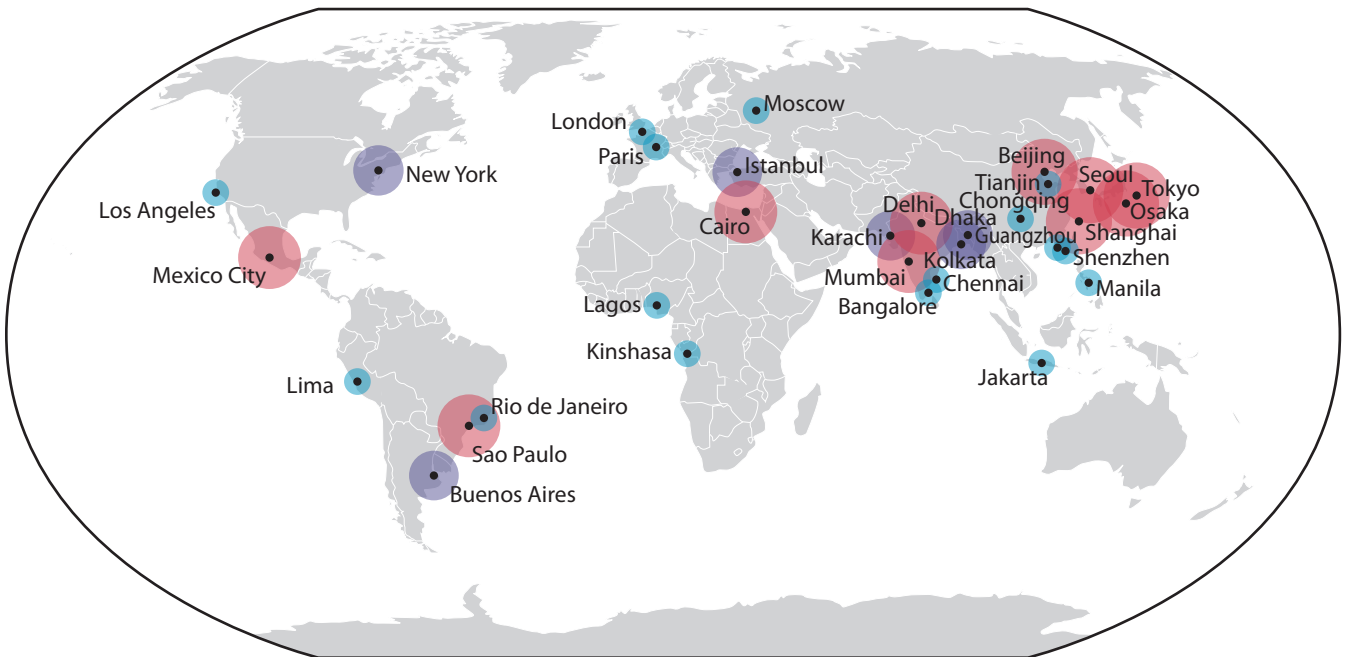
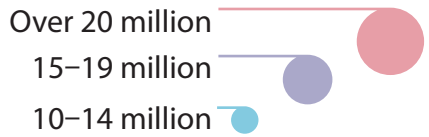
**Data on the human and economic impacts of natural disasters in 2015**

The following resource relates to Question 6.



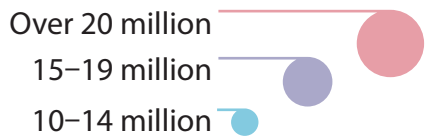
**1990**  
10  
megacities

**Megacity population (metropolitan area, millions)**



**2016**  
32  
megacities

**Megacity population (metropolitan area, millions)**



**Figure 6**

**Information on selected megacities**

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Figure 1 - Source from: [https://urldefense.proofpoint.com/v2/url?u=https-3A\\_\\_www.climate.gov\\_news-2Dfeatures\\_understanding-2Dclimate\\_can-2Dwe-2Dblame-2Del-2Dni-25C3-25B1o&d=DwlCaQ&c=0YLnzTkWOdJlub\\_y7qAx8Q&r=iezJdej5A21tbcNvFRdYfVx7kXShAGALzQz6JE6KUgU&m=JcEeuz-2sqdiPUIEM3iacsQV5xv3SoafBSw3VxjdEVY&s=jplKe9PYsOWQj5hwOiJMzGYIAhOI9RP8bRwJ6EFIB7A&e=](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.climate.gov_news-2Dfeatures_understanding-2Dclimate_can-2Dwe-2Dblame-2Del-2Dni-25C3-25B1o&d=DwlCaQ&c=0YLnzTkWOdJlub_y7qAx8Q&r=iezJdej5A21tbcNvFRdYfVx7kXShAGALzQz6JE6KUgU&m=JcEeuz-2sqdiPUIEM3iacsQV5xv3SoafBSw3VxjdEVY&s=jplKe9PYsOWQj5hwOiJMzGYIAhOI9RP8bRwJ6EFIB7A&e=)