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 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.

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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

Global action

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

(6)

(Total for Question 1 = 15 marks)

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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

2

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

(4)

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

(6)

(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)

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

(4)

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

(6)

(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)

(b) Define the term 'global hub'.

(2)

(c) Explain **two** ways that consumers have benefited from the growth of global brands.

(4)

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(d) Explain why there is uncertainty about future global population projections.

(6)

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(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.

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

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

5 Study Figure 5 in the Resource Booklet.

(a) Suggest reasons for the variations in the human and economic impacts shown.

(10)

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

6 Study Figure 6 in the Resource Booklet.

(a) Suggest reasons for the change in distribution of megacities shown.

(10)

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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)

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

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Geography

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Paper 1: Global Challenges

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.

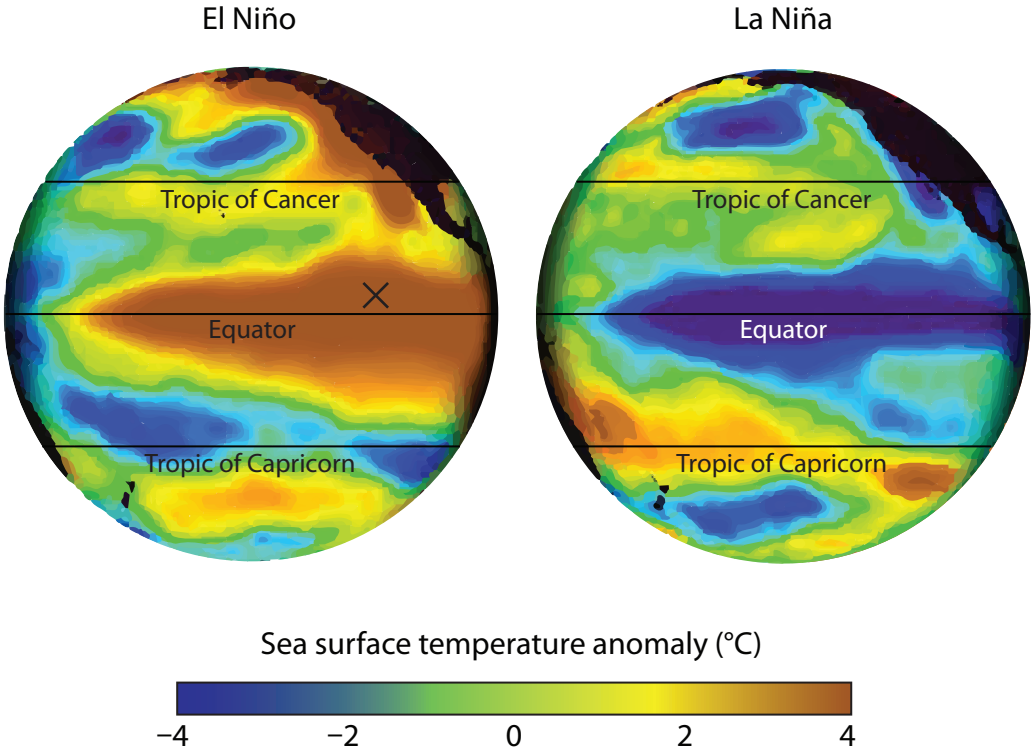
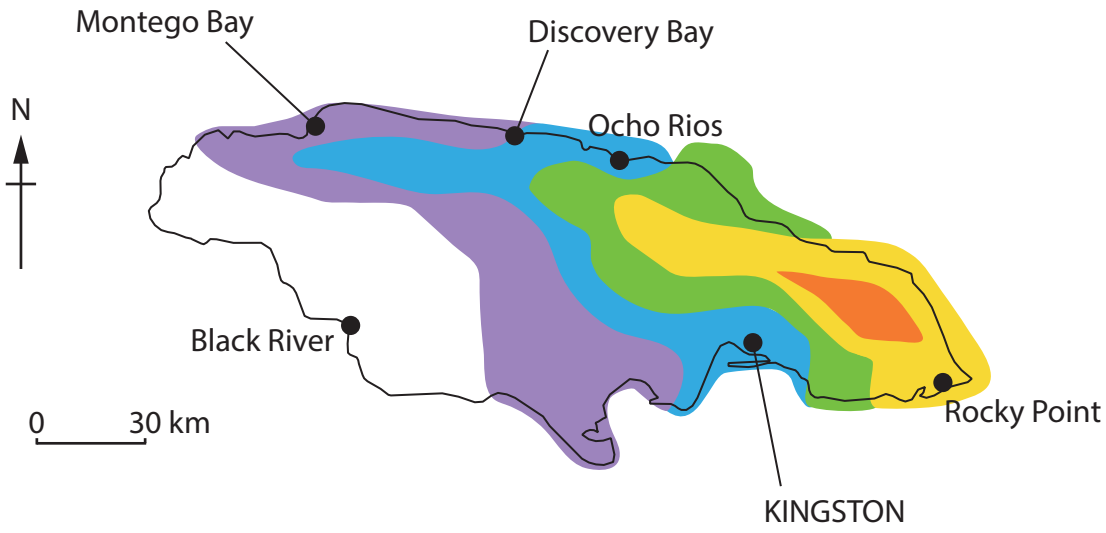


Figure 1

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

The following resource relates to Question 2.



Key

Total rainfall in mm	
	Less than 25
	25–75
	76–126
	127–203
	204–304
	305–508

● Town

Figure 2

Rainfall levels in Jamaica during Hurricane Matthew, 2016

The following resource relates to Question 3.

Annual percentage (%) change in GDP				
	2013	**2014**	**2015**	**2016**
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.

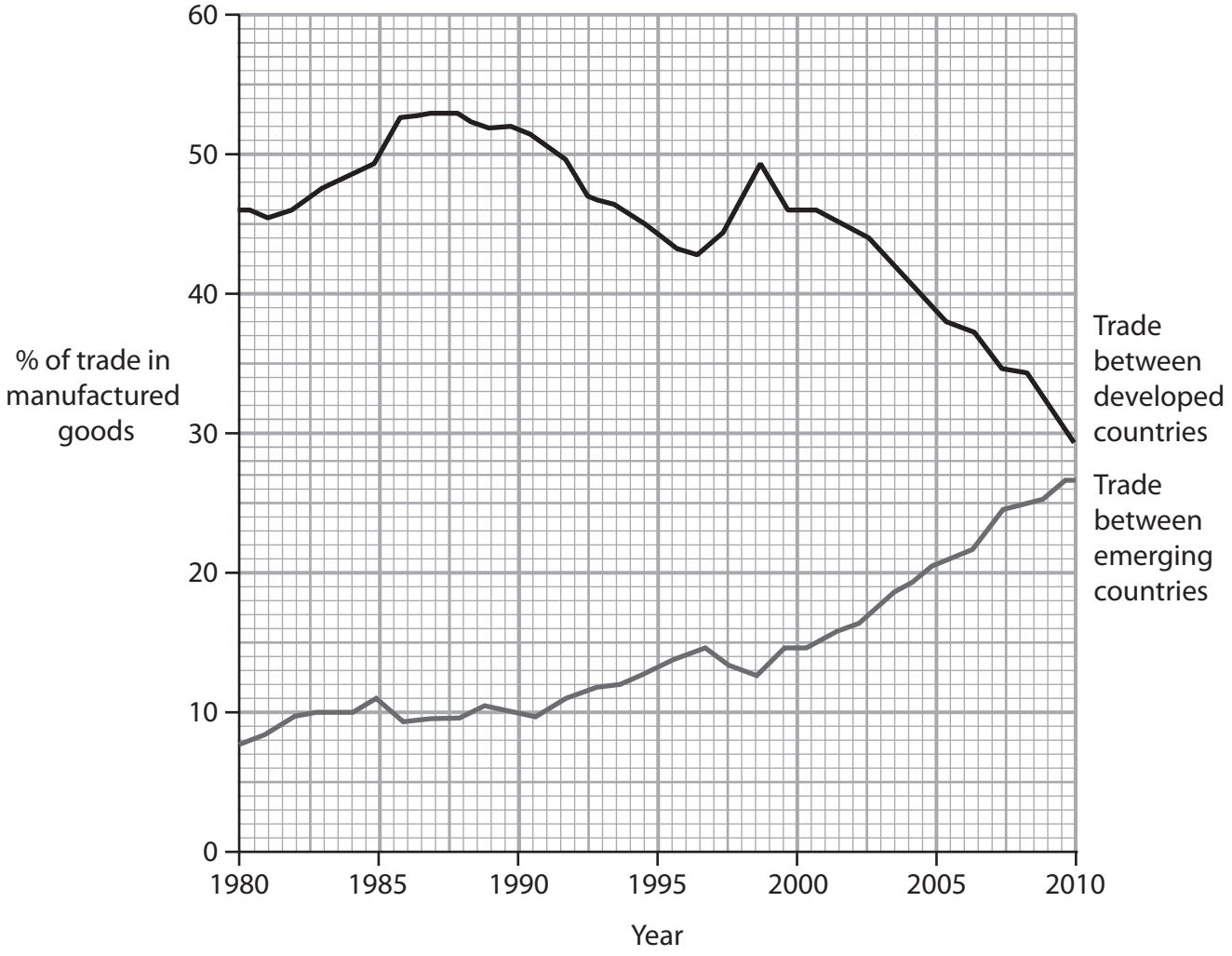


Figure 4

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

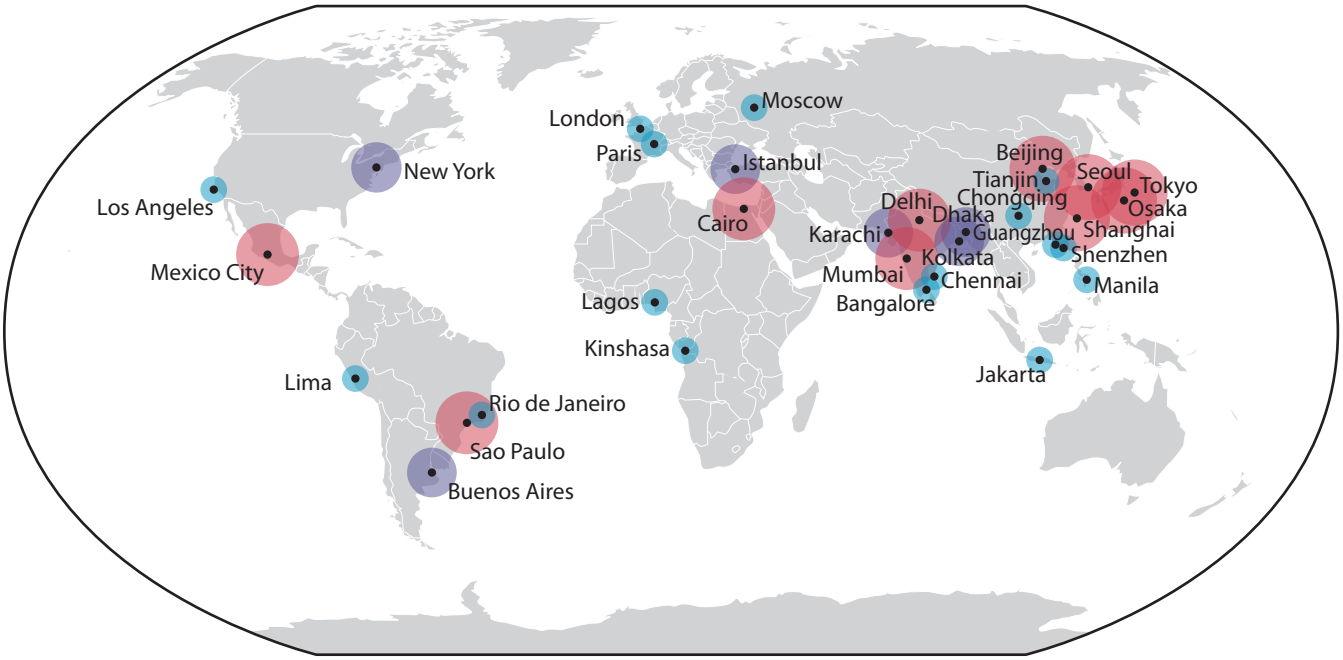
The following resource relates to Question 6.



1990
10
megacities

Megacity population (metropolitan area, millions)

Over 20 million
15–19 million
10–14 million



2016
32
megacities

Megacity population (metropolitan area, millions)

Over 20 million
15–19 million
10–14 million

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=DwICaQ&c=0YLnzTkWOdJlub_y7qAx8Q&r=iezJdej5A21tbcNvFRdYfVx7kXShAGALzQz6JE6KUgU&m=JcEeuz-2sqdiPUlEM3iacsQV5xv3SoafBSw3VxjdEVY&s=jpIKe9PYsOWQj5hwOiJMzGYIAhOI9RP8bRwJ6EFIB7A&e=