

Write your name here

Surname

Other names

Centre Number

Candidate Number

**Pearson Edexcel**  
**Level 1/Level 2 GCSE (9–1)**

# Geography B

## Paper 1: Global Geographical Issues

Tuesday 22 May 2018 – Afternoon  
**Time: 1 hour 30 minutes**

Paper Reference  
**1GB0/01**

**You must have:**  
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.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- Where asked you must **show all your working out** with **your answer clearly identified** at the **end of your solution**.

### Information

- The total mark for this paper is 94.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*
- The marks available for spelling, punctuation, grammar and use of specialist terminology are clearly indicated.

### Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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## SECTION A

### Hazardous Earth

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.

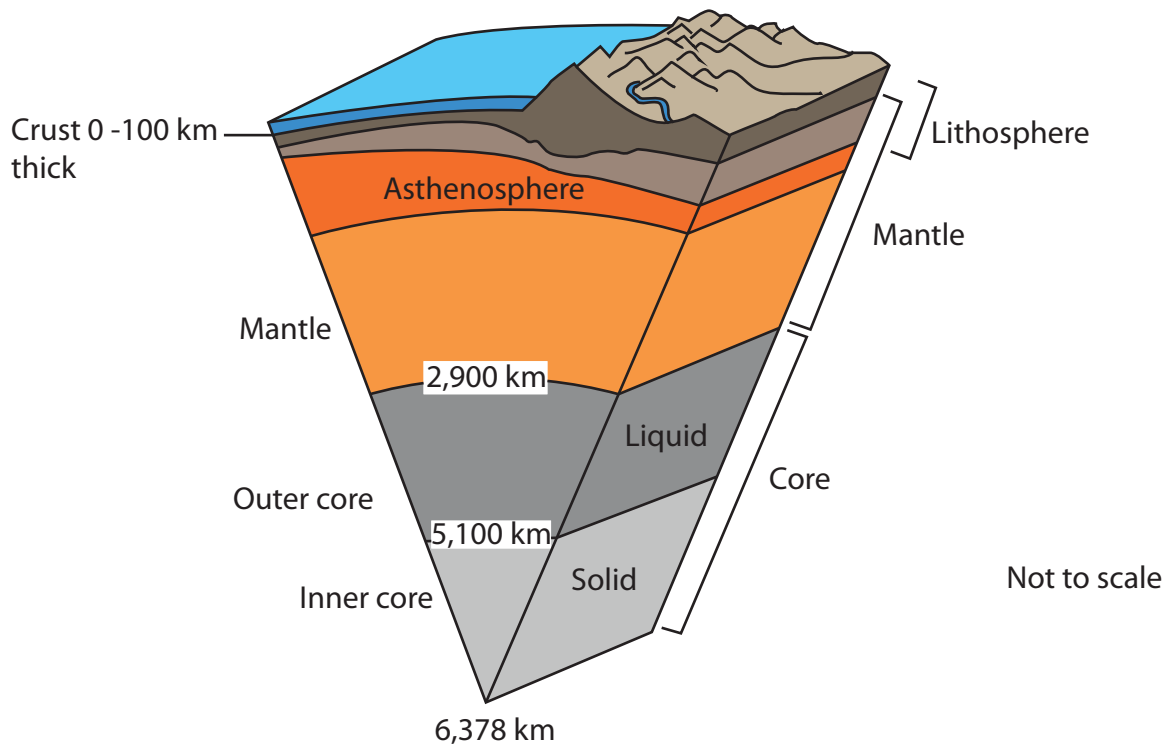


Figure 1

### The Earth's layered structure

(a) (i) Identify which **one** of the following describes the outer core.

(1)

- A** a liquid layer of 2 200 km in thickness
- B** a solid layer with temperatures over 5000° Celsius
- C** a layer of partly molten and partly solid rock
- D** a solid layer of 1 300 km in thickness



(ii) State which **one** of the Earth's layers has the highest density.

(1)

- A mantle
- B crust
- C inner core
- D outer core

(b) (i) Explain **one** cause of a tsunami.

(2)

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(ii) Identify **one** primary impact of tectonic hazards.

(1)

- A loss of employment
- B spread of disease
- C destruction of buildings
- D homelessness

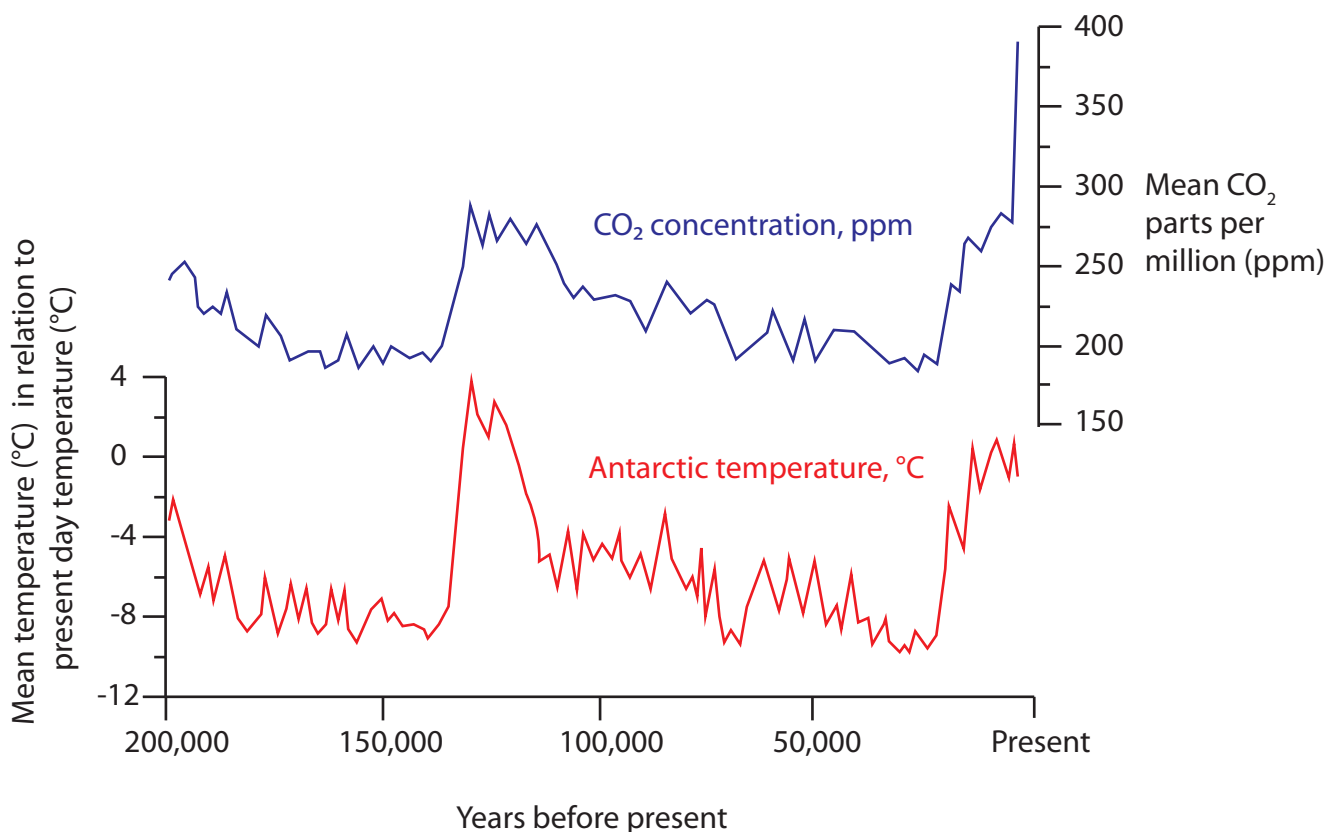
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(c) Analyse the data in Figure 2.



**Figure 2**

**Mean Antarctic temperatures and atmospheric CO<sub>2</sub> concentration over the past 200,000 years**

(i) Describe the trends in mean Antarctic temperatures and CO<sub>2</sub> concentration as shown in Figure 2. Use numeric data in your answer.

(3)

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(ii) Explain **one** natural cause of climate change.

(2)

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(d) The Saffir-Simpson Scale measures the magnitude of tropical cyclones.

Identify **one** source of data used to calculate the Saffir-Simpson Scale of a tropical cyclone.

(1)

- A** satellite imagery
- B** seismometer readings
- C** recorded wind speeds
- D** thermometer readings

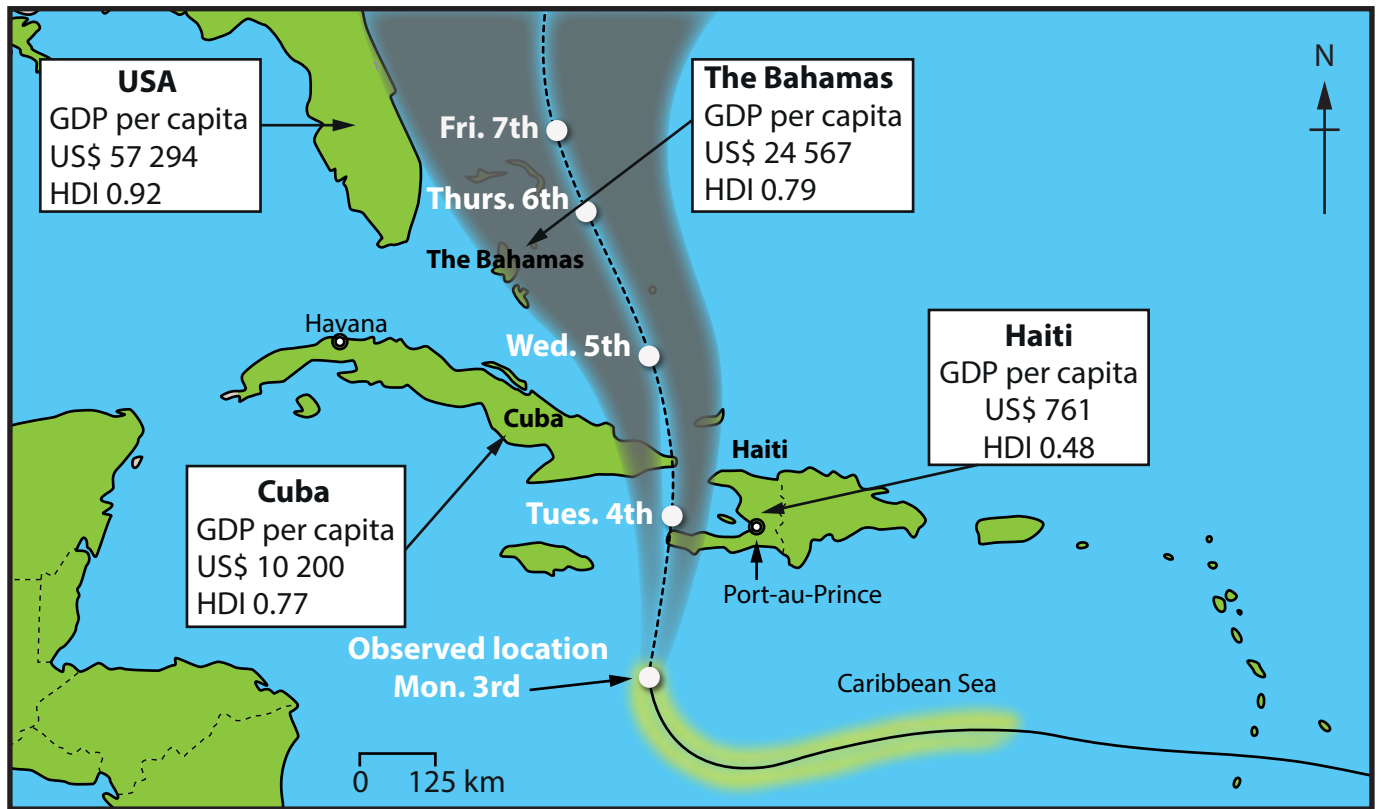
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(e) Study Figure 3.



**Key**

- capital city
- actual path of the storm before 3rd October
- - - predicted path of the storm after 3rd October
- possible range of predicted storm paths
- area of hurricane force winds before the 3rd October

	USA	Haiti	The Bahamas
<b>Total Deaths</b>	33	1 027	27
<b>GDP per Capita (US\$)</b>	57 294	761	24 567
<b>HDI (Human Development Index)</b>	0.92	0.48	0.79

**Figure 3**

**Actual and predicted path of Hurricane Matthew (Oct 2016) and data for selected countries**



(i) Haiti appears to be very vulnerable to the impacts of Hurricane Matthew.

Using Figure 3, suggest **two** reasons why.

(4)

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(ii) Figure 3 includes a GIS cyclone track map.

Explain **two** ways maps such as these can help countries to prepare for tropical cyclones.

(4)

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(f) Explain **one** way in which global atmospheric circulation determines the location of high rainfall (low pressure) areas.

You may use a diagram to help your answer.

(3)

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(g) Evaluate the effectiveness of the methods of response to a tropical cyclone in a named developed country.

(8)

Named developed country .....

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(Total for Question 1 = 30 marks)

**TOTAL FOR SECTION A = 30 MARKS**



**SECTION B****Development Dynamics**

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 ☒.

Spelling, punctuation, grammar and use of specialist terminology will be assessed in 2(g).

2 (a) (i) Which of the following is the definition of 'Gross Domestic Product (GDP)?' (1)

- A the total value of goods and services produced within a country during one year
- B the total value of all products imported by a country during one year
- C the total value of all products exported by a country during one year
- D the total value of all exports minus the value of imports during one year

(ii) Which **one** of the following is included in the Human Development Index (HDI)? (1)

- A the average number of women dying in child birth
- B the average number of births per woman
- C the average number of years attending school
- D the average number of people of working age

(b) Explain how the HDI measures the health of a population. (2)

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(c) Explain **one** way in which topography affects economic development.

(3)

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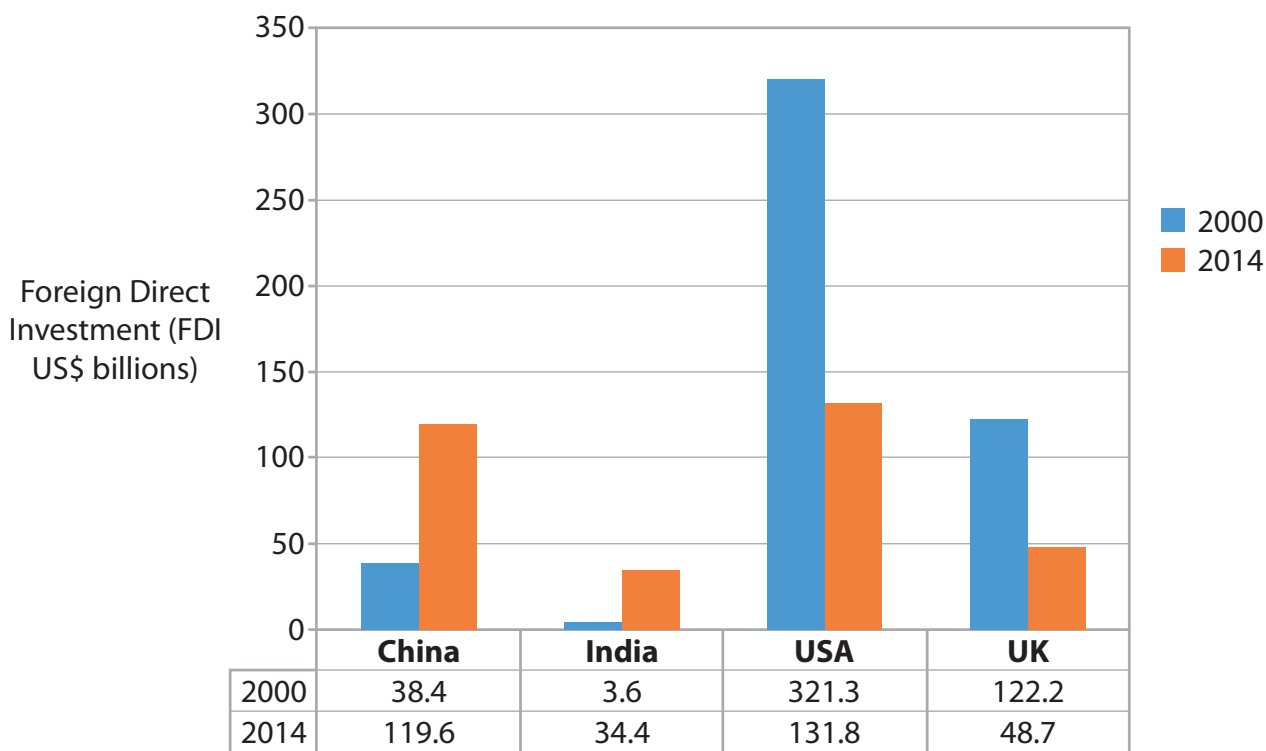
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(d) Analyse Figure 4.



**Figure 4**  
**FDI received by selected countries between 2000 and 2014**

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(i) Calculate the difference between the FDI in China and India in 2014. (1)

..... US\$ billions

(ii) Calculate the percentage increase in FDI in China between 2000 and 2014.  
Answer to one decimal place.  
Show your working. (2)

.....%

(e) Explain **one** disadvantage of top-down development strategies. (3)

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(f) Analyse Figure 5.

	Rural population (millions)	Urban population (millions)	Total population (millions)
1960	550	100	650
1980	805	198	1,003
2000	820	455	1,275
2020 (projected)	650	750	1,400

**Figure 5**

**Changes in the actual and projected rural and urban population  
of China between 1960 and 2020**

(i) For 1960, calculate the ratio of rural population to urban population. (1)

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(ii) Describe another data presentation technique which could be used to show the changing rural and urban populations in China in the table (Figure 5). (2)

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(iii) Explain **one** negative impact of rapid economic development on human health. (2)

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(iv) For a named emerging country, explain **two** socio-economic differences between regions.

(4)

Named emerging country .....

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**(Total for spelling, punctuation, grammar and use of specialist terminology = 4 marks)**

**(Total for Question 2 = 34 marks)**

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**TOTAL FOR SECTION B = 34 MARKS**



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SECTION C

Challenges of an Urbanising World

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 ☒.

3 (a) State which of the following is the definition of urbanisation. (1)

- A an increasing number of people living in the suburbs of cities
- B an increasing proportion of people leaving the cities and moving to rural areas
- C an increasing number of people living in city centre locations
- D an increasing proportion of a country's population living in urban areas

(b) (i) State **one** characteristic of informal employment. (1)

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(ii) Explain **one** reason why informal employment has grown rapidly in some cities. (2)

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(c) Study Figure 6.



**Key:**

IAMP - International Advanced Manufacturing Park

 - Sunderland's Central Business District (CBD)

**Figure 6**

**An annotated satellite image of Sunderland showing different land uses and future developments**

(i) Identify the main land use found at locations X and Y by completing the table using the list below.

(2)

- A** Transport
- B** Agricultural
- C** Residential
- D** Commercial
- E** Industrial

Location	Main land use
<b>X</b>	.....
<b>Y</b>	.....



(ii) Describe the location of Sunderland's Central Business District (CBD) shown on Figure 6.

(3)

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(iii) Suggest **two** factors which may have influenced the choice of site for the proposed International Advanced Manufacturing Park (IAMP) shown on Figure 6.

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(d) Study Figure 7.

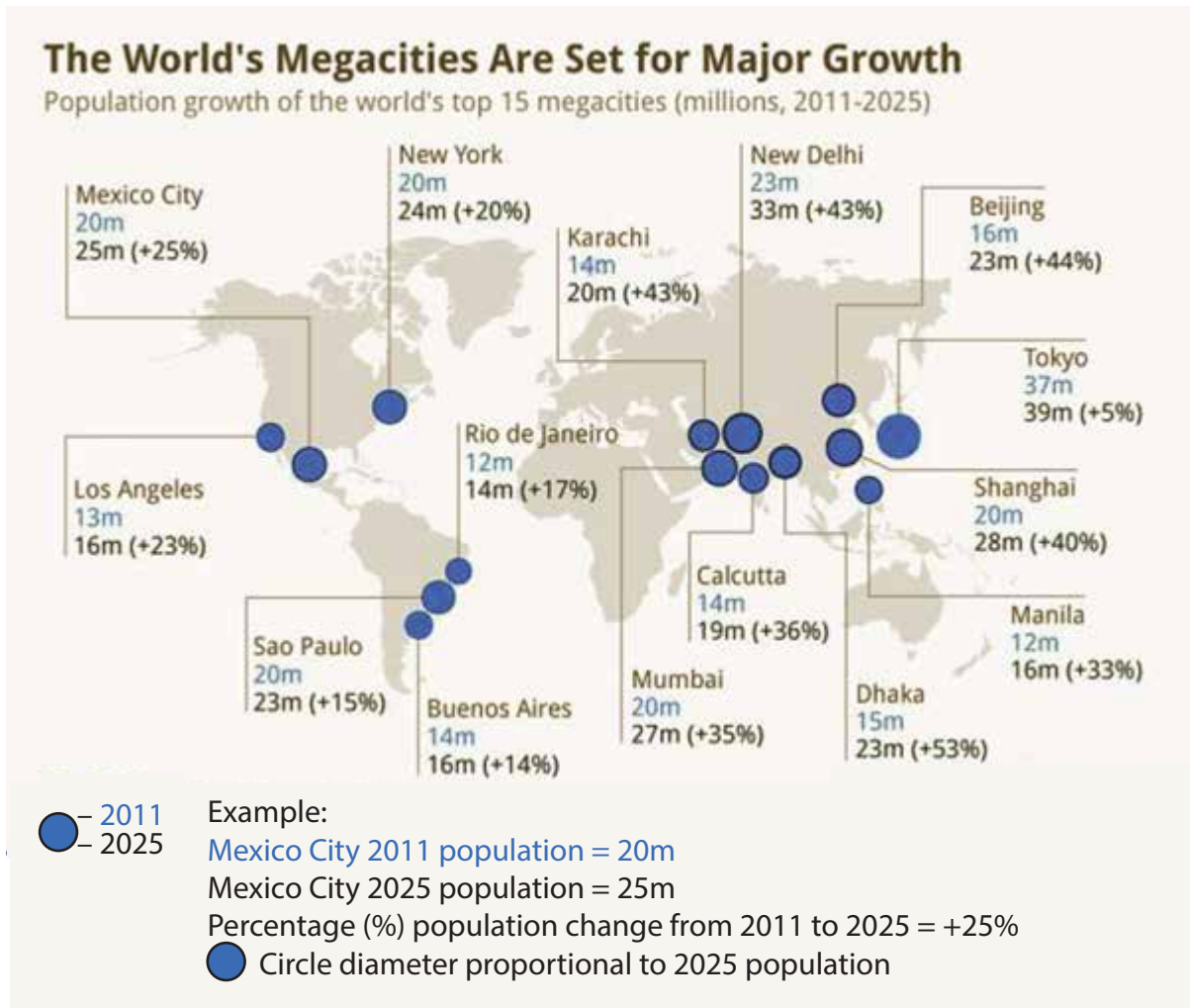


Figure 7

Populations and population growth rate of the world's largest megacities

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- (i) Calculate the mean % population growth between 2011 and 2025 in South American megacities.  
Answer to one decimal place.  
Show your working.

(2)

.....%

- (ii) Explain why the rapid growth of megacities shown in Figure 7 may cause social challenges.

(3)

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(e) (i) State **one** reason why the population of megacities is likely to grow rapidly.

(1)

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(ii) For a named megacity, explain why the quality of life varies between different residential areas.

(3)

Named megacity .....

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(iii) For a named megacity, assess the different strategies used to improve sustainability.

(8)

Named megacity .....

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(Total for Question 3 = 30 marks)

**TOTAL FOR SECTION C = 30 MARKS**  
**TOTAL FOR PAPER = 94 MARKS**



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Figure 6 – Map data © 2017 Google

Figure 7 – Source from: <https://www.statista.com/chart/1826/population-growth-in-the-worlds-megacities/>

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