



Subject	Geography Paper 1 (Global Geographical Issues)
Year	10

Forename	
Surname	
Tutor Group	
Subject Teacher's Name	

Time Allowed	90 minutes
Total Marks for this paper	94
Instructions	Answer all the questions.
Equipment	Black Pen, Pencil and calculator

Marks achieved by student

Percentage Score



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.

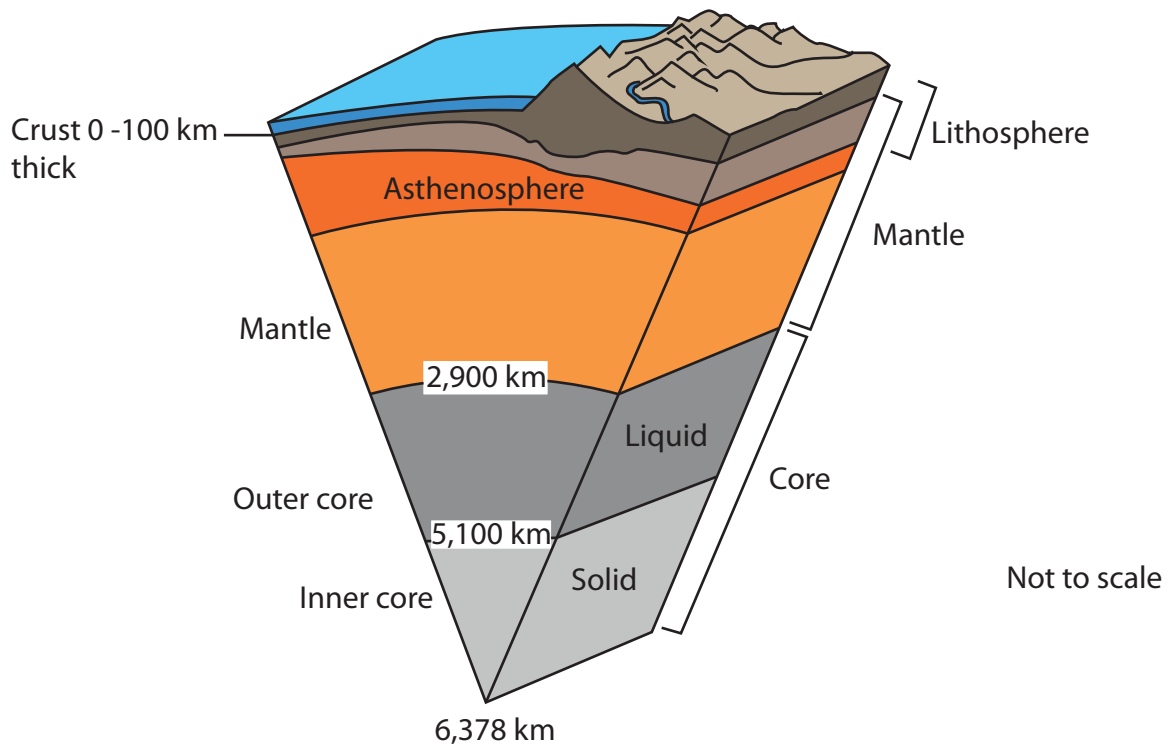


Figure 1

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.

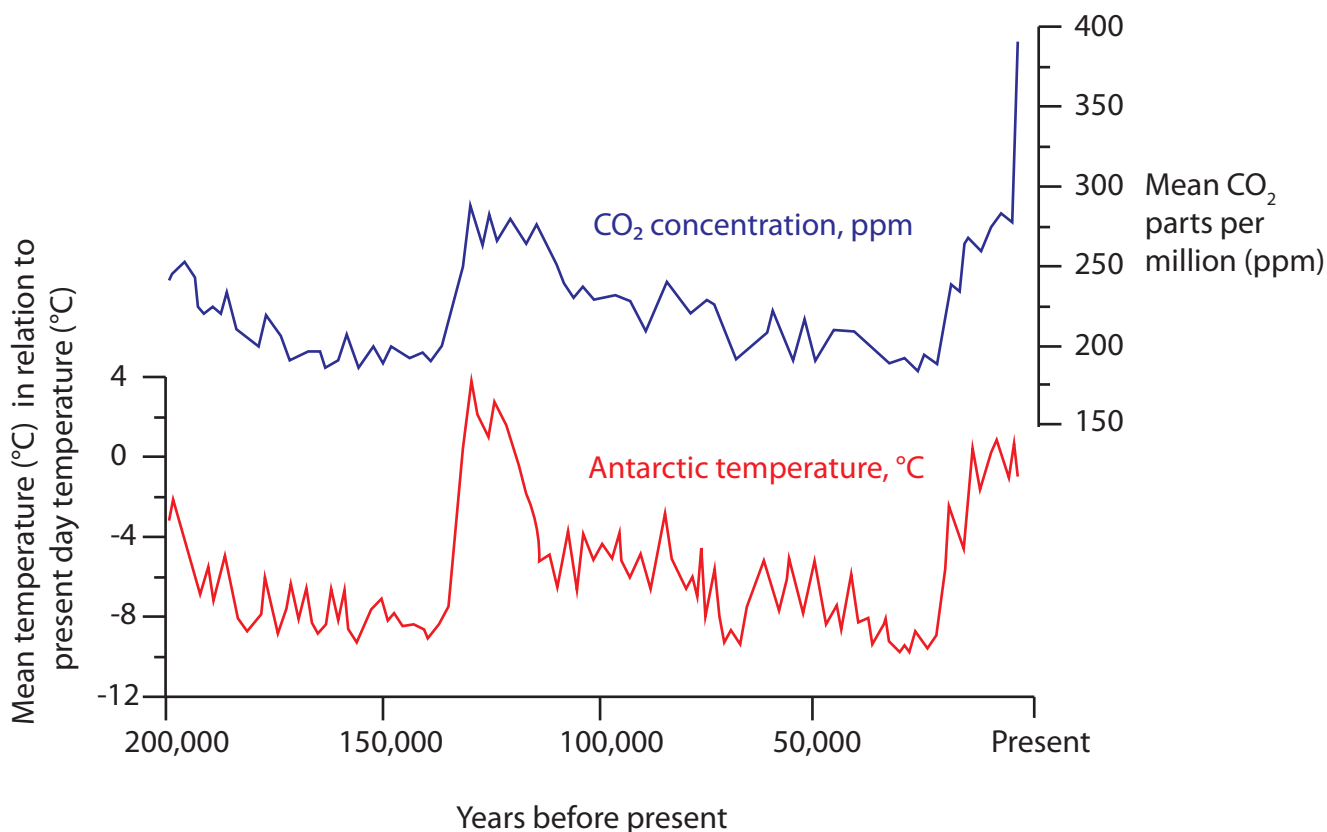


Figure 2

Mean Antarctic temperatures and atmospheric CO₂ concentration over the past 200,000 years

(i) Describe the trends in mean Antarctic temperatures and CO₂ 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

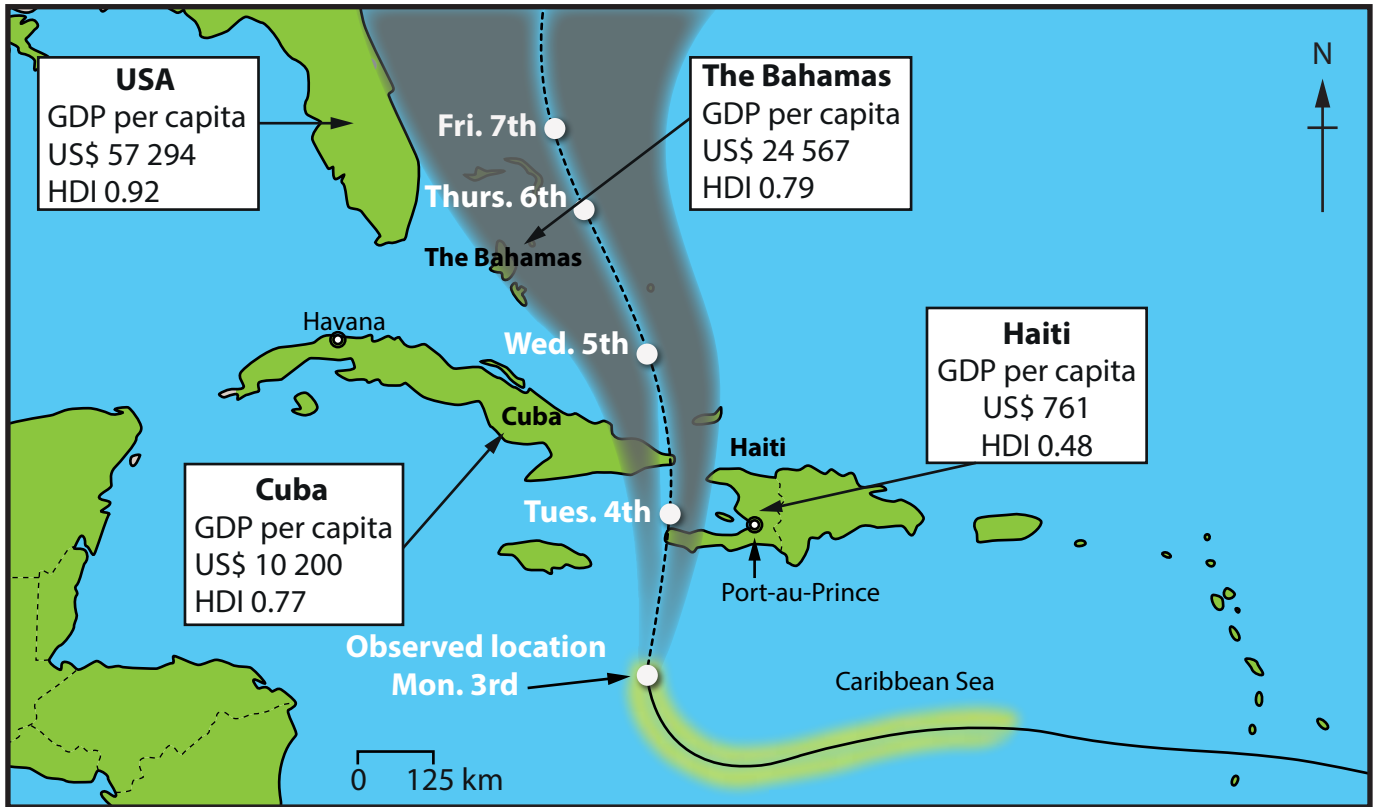
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(e) Study Figure 3.



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
Total Deaths	33	1 027	27
GDP per Capita (US\$)	57 294	761	24 567
HDI (Human Development Index)	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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(d) Analyse Figure 4.

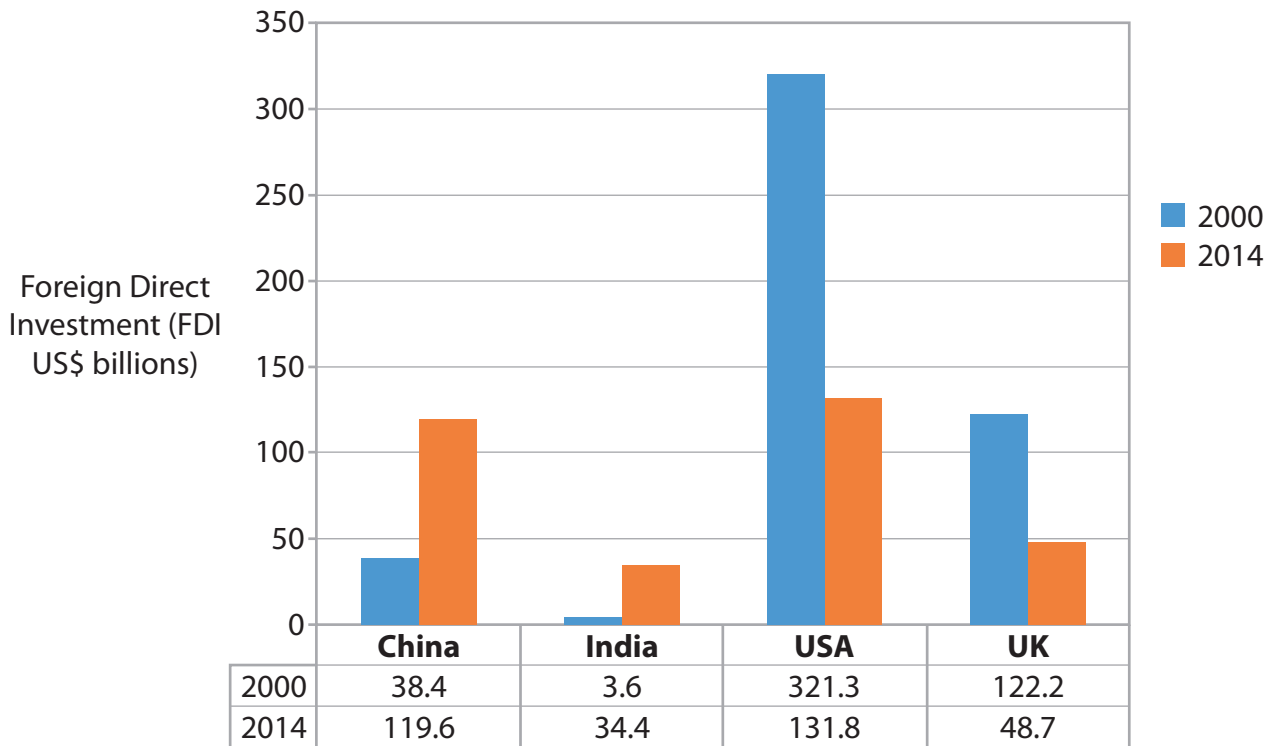


Figure 4
FDI received by selected countries between 2000 and 2014

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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)

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
X
Y



(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.

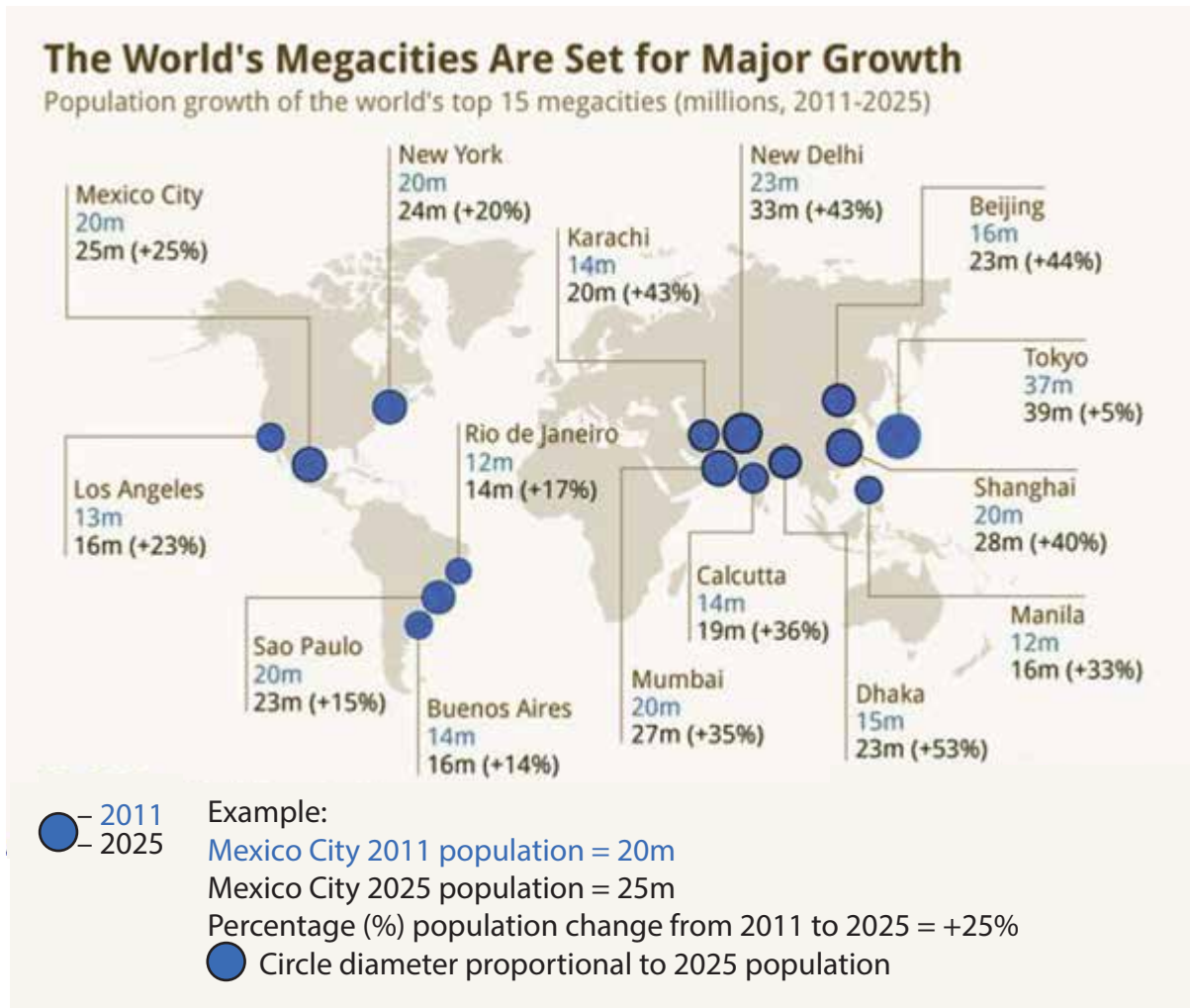


Figure 7

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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(Total for Question 3 = 30 marks)

TOTAL FOR SECTION C = 30 MARKS

TOTAL FOR PAPER = 94 MARKS



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Figure 3 – Map data © 2017 Goggle, INEGI

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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