

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.

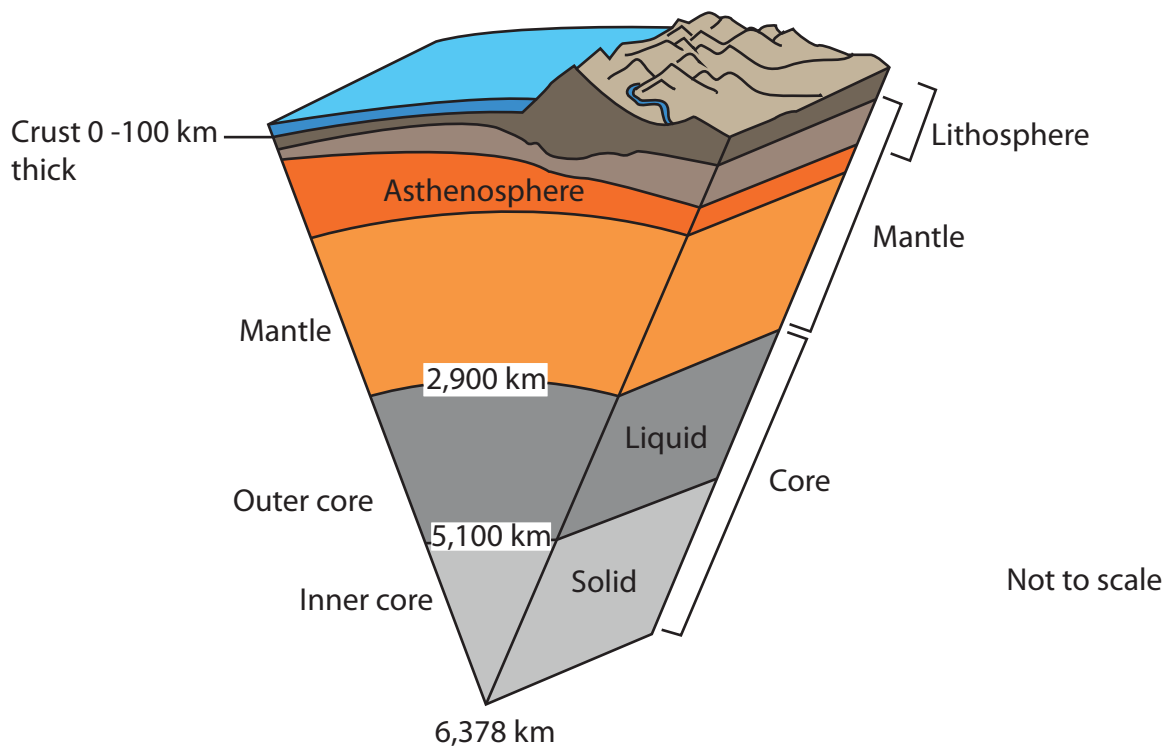


Figure 1

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)

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

(1)

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



(c) Analyse the data in Figure 2.

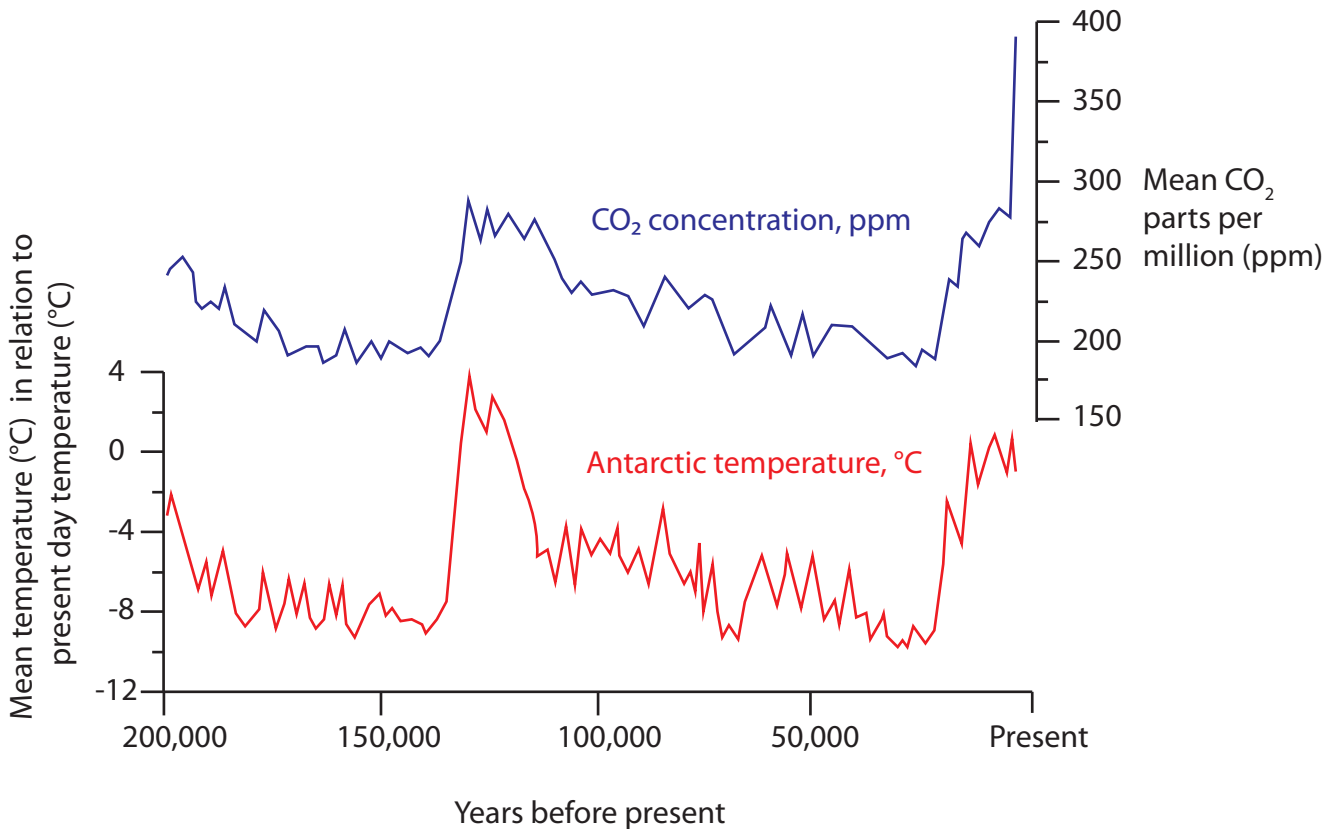


Figure 2

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)



(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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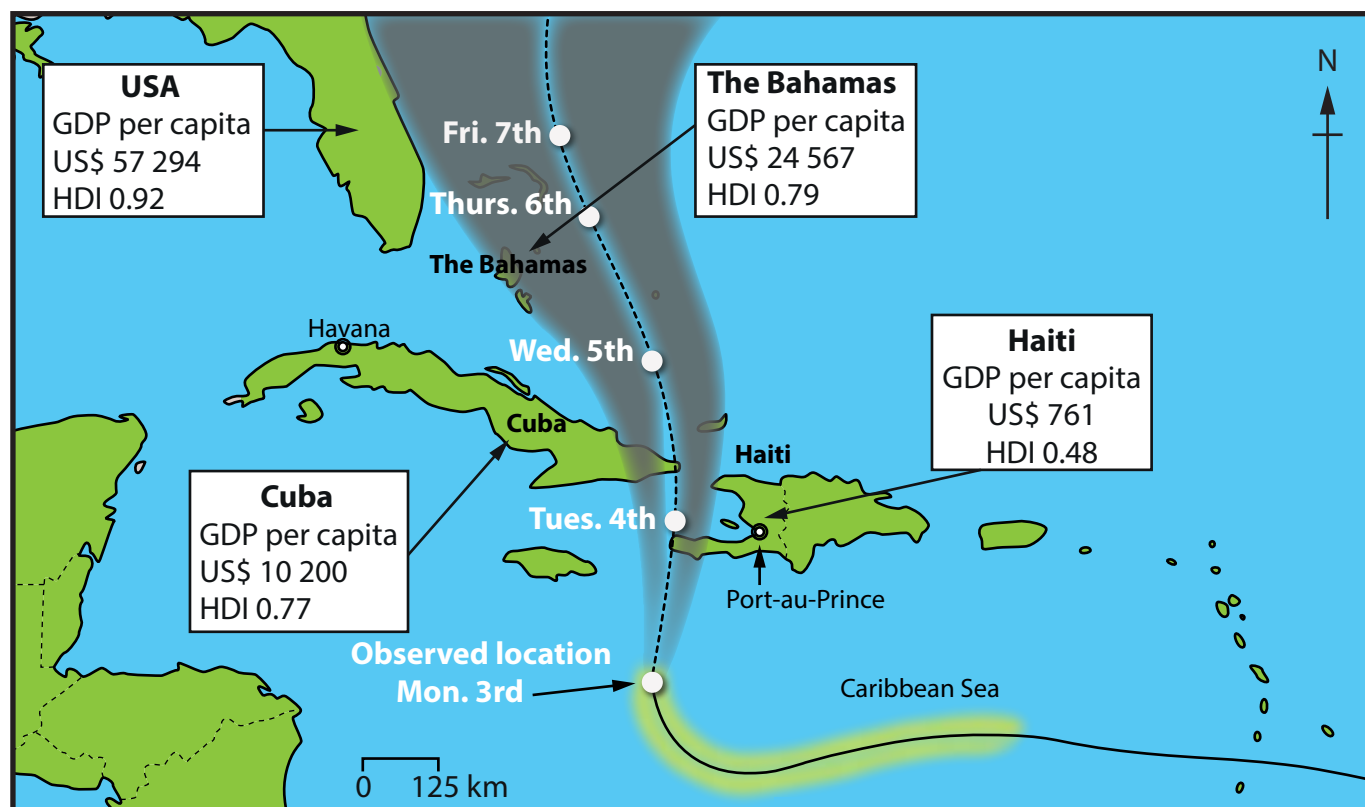
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(e) Study Figure 3.

**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)



- (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)

(d) Analyse Figure 4.

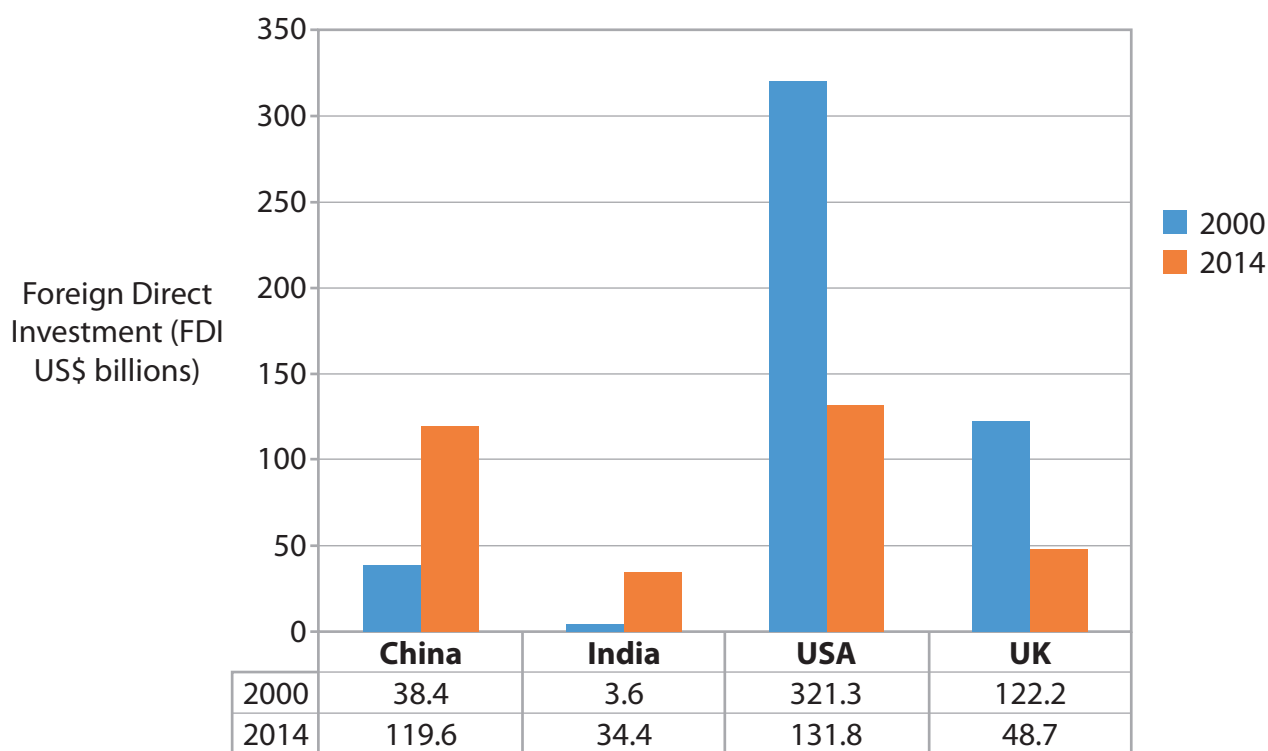


Figure 4

FDI received by selected countries between 2000 and 2014



- (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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In this question, up to four additional marks will be awarded for your spelling, punctuation, grammar and use of specialist terminology.

- (g) Evaluate the impact of globalisation on the economy of a named emerging country.

(8)

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)

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

(2)

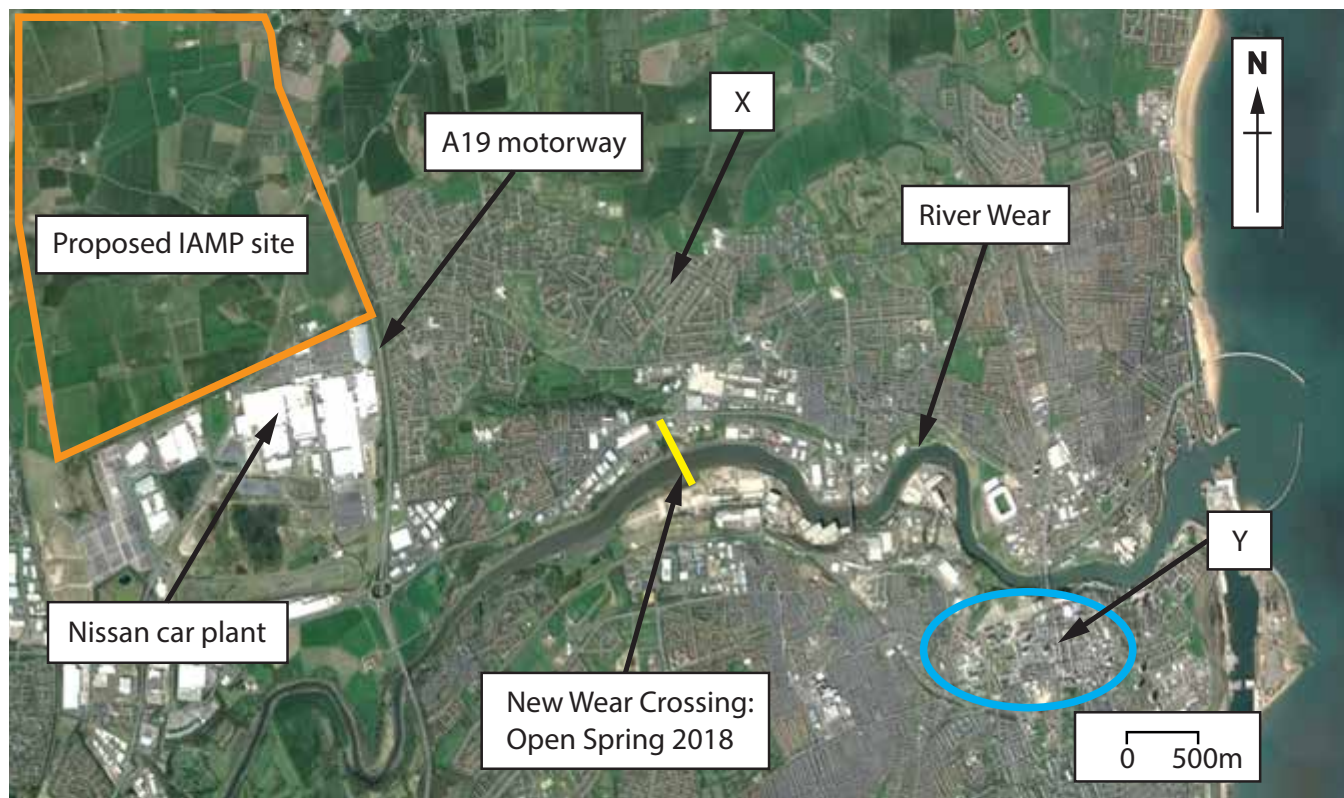
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(c) Study Figure 6.



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)

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

(4)

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(d) Study Figure 7.

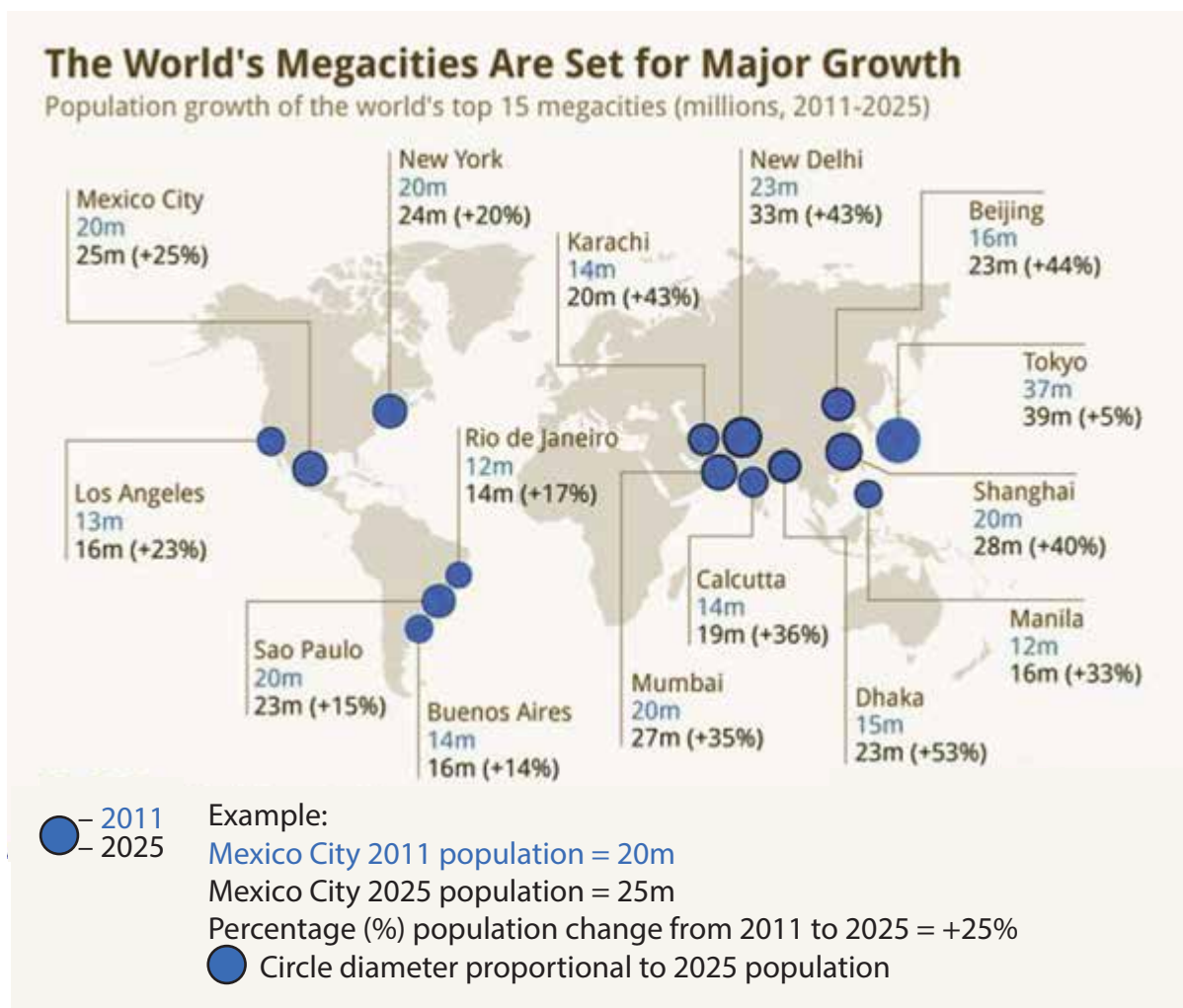


Figure 7

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



- (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)

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

(3)

Named megacity



- (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 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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