

Please write clearly in block capitals.

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# GCSE GEOGRAPHY (SPECIFICATION A)

# H

Higher Tier Unit 1 Physical Geography

Tuesday 24 May 2016

Afternoon

Time allowed: 1 hour 30 minutes

## Materials

For this paper you must have:

- the colour insert (enclosed)
- a pencil
- a rubber
- a ruler.

You may use a calculator.

## Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- **Answer THREE questions:**
  - **one** question from **Section A (Questions 1 – 4)**
  - **one** question from **Section B (Questions 5 – 7)**
  - **one** other question from **either** Section A **or** Section B.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.
- Use case studies to support your answers where appropriate.

## Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 75.
- You are reminded of the need for good English and clear presentation in your answers. Where applicable, questions should be answered in continuous prose. Quality of written communication will be assessed in all answers.

## Advice

Where appropriate, credit will be given for the use of diagrams to illustrate answers and where reference is made to your personal investigative work. You are advised to allocate your time carefully.



**Section A**

Answer **one** question from Section A and **one** question from Section B and  
**one** other question from **either** Section A **or** Section B.

Use case studies to support your answers where appropriate.

**Total for this question: 25 marks**

**1 The Restless Earth**

**1 (a)** Study **Figure 1** on the insert, an atlas map showing the Earth's tectonic plates.

Use **Figure 1** to complete the Fact File.

**[4 marks]**

**Fact File**

Names of plates at **X** on the plate margin \_\_\_\_\_  
plate and \_\_\_\_\_ plate

Name of volcano at 43°N 122°W \_\_\_\_\_

Distribution of tectonic features in South America \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_



**1 (b)** Explain the formation of fold mountains.

**[4 marks]**

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**1 (d)** Outline how earthquakes are measured using the Mercalli Scale.

**[2 marks]**

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**1 (e) (i)** Study **Figure 3** on the insert, a map showing the shaking intensity of the Sendai earthquake near Japan in March 2011.

Describe the pattern of shaking intensity shown in **Figure 3**.

**[3 marks]**

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1 (e) (ii) Describe the primary and secondary effects of an earthquake.

[4 marks]

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**Total for this question: 25 marks****2 Rocks, Resources and Scenery****2 (a)** Study **Figure 4** on the insert, an atlas map showing the geology of the British Isles.Use **Figure 4** to complete the Fact File.**[4 marks]****Fact File**Width of the band of chalk between **X** and **Y** \_\_\_\_\_ kmThe latitude and longitude for the granite at **Z** \_\_\_\_\_  
\_\_\_\_\_Distribution of chalk in the British Isles \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_**2 (b)** Give **two** characteristics of sedimentary rock.**[2 marks]**1 \_\_\_\_\_  
\_\_\_\_\_2 \_\_\_\_\_  
\_\_\_\_\_**Question 2 continues on the next page****Turn over ►**

**2 (c) (i)** Study **Figure 5** on the insert, a photograph of Bowerman’s Nose, a granite tor on Dartmoor.

Describe the features of this granite tor.

**[3 marks]**

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**2 (c) (ii)** Explain the formation of a granite tor.

**[4 marks]**

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**2 (d) (i)** Study **Figure 6** on the insert, a diagram showing the layout of the Eden Project, sited in a former china clay quarry in Cornwall.

Describe the layout of the Eden Project.

**[4 marks]**

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**Total for this question: 25 marks**

**3 The Challenge of Weather and Climate**

**3 (a) (i)** Study **Figure 7** on the insert, an atlas map showing average annual precipitation in the UK.

Use **Figure 7** to complete the Fact File.

**[4 marks]**

**Fact File**

Average annual precipitation in Oban \_\_\_\_\_ mm

A reason the shading on the key gets darker \_\_\_\_\_

Pattern of precipitation in the UK \_\_\_\_\_

**3 (a) (ii)** Explain why some areas of the UK get more rainfall than others.

**[4 marks]**

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**3 (b) (i)** Study **Figures 8a** and **8b** on the insert, photographs showing weather in a summer and a winter anticyclone.

State **one** similarity and **one** difference between the weather accompanying a summer and winter anticyclone.

**[2 marks]**

Similarity \_\_\_\_\_

\_\_\_\_\_

Difference \_\_\_\_\_

\_\_\_\_\_

**3 (b) (ii)** Explain why the weather in a summer anticyclone is different from the weather in a winter anticyclone.

**[4 marks]**

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**3 (c) (i)** Study **Figure 9** on the insert, a map showing some predicted worldwide effects of global warming.

Use **Figure 9** to provide evidence that the effects of global warming will be significant.

**[3 marks]**

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**Total for this question: 25 marks**

**4 Living World**

**4 (a) (i)** Study **Figure 10** on the insert, an atlas map showing world ecosystems.

Use **Figure 10** to complete the Fact File.

**[4 marks]**

**Fact File**

Location of the largest area of hot desert \_\_\_\_\_

The direction of flow of the River Nile from Lake Victoria to Mediterranean Sea

\_\_\_\_\_

Global distribution of tropical rainforest \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**4 (a) (ii)** With the help of **Figure 10**, explain why different ecosystems are found in different parts of the world.

**[4 marks]**

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**4 (b) (i)** Study **Figure 11** on the insert, a photograph of vegetation in a tropical rainforest.

Describe the vegetation in the tropical rainforest area shown in **Figure 11**.

**[3 marks]**

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**4 (b) (ii)** Explain how vegetation in tropical rainforests adapts to the climate.

**[4 marks]**

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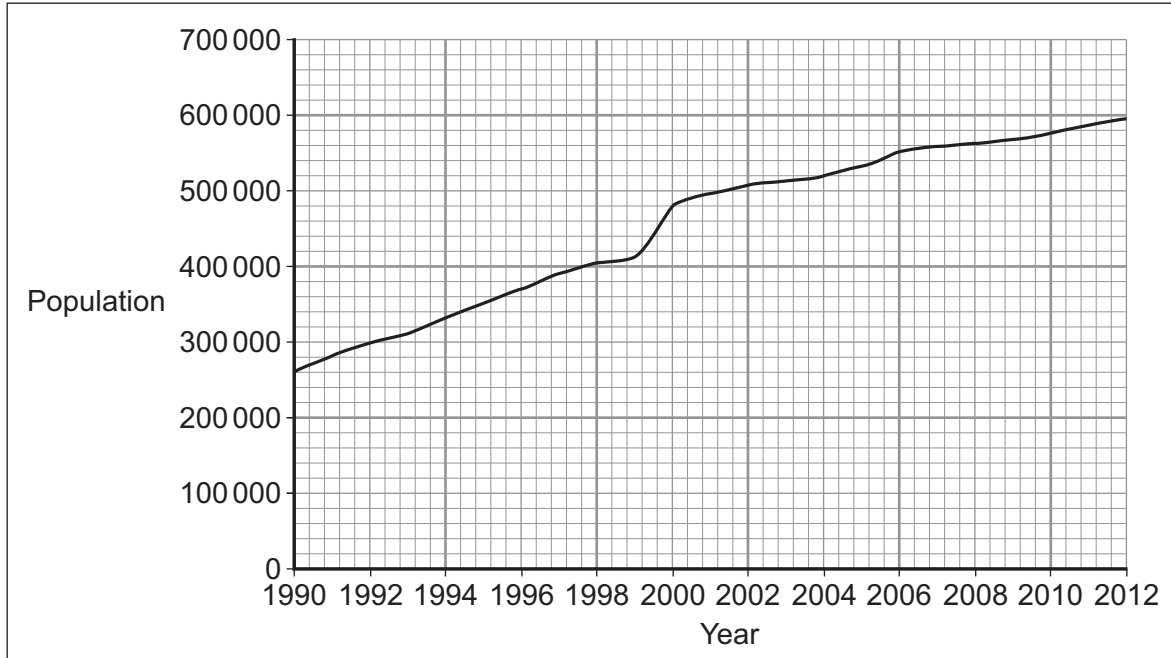
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- 4 (c) (i) Study **Figure 12**, a graph showing the population of Las Vegas between 1990 and 2012. Las Vegas is a city in an area of hot desert in the United States of America.

**Figure 12**



Summarise the changes in the population of Las Vegas from 1990 to 2012.

**[2 marks]**

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**Section B**

Answer **one** question from Section A and **one** question from Section B and **one** other question from **either** Section A **or** Section B.

Use case studies to support your answers where appropriate.

**Total for this question: 25 marks**

**5 Water on the Land**

**5 (a)** Distinguish between the processes of abrasion and attrition.

**[2 marks]**

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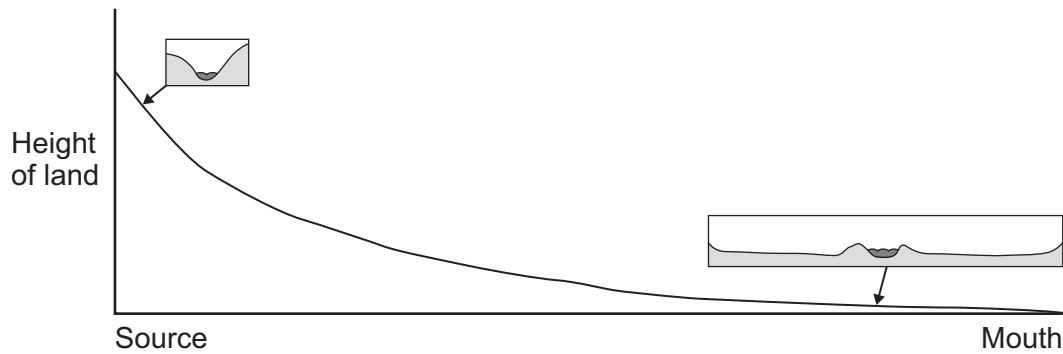
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**5 (b)** Study **Figure 13**, a diagram showing the long profile of a river and cross profiles of a river valley.

**Figure 13**



With the help of **Figure 13**, describe how the long profile of a river and cross profile of a river valley change downstream.

**[4 marks]**

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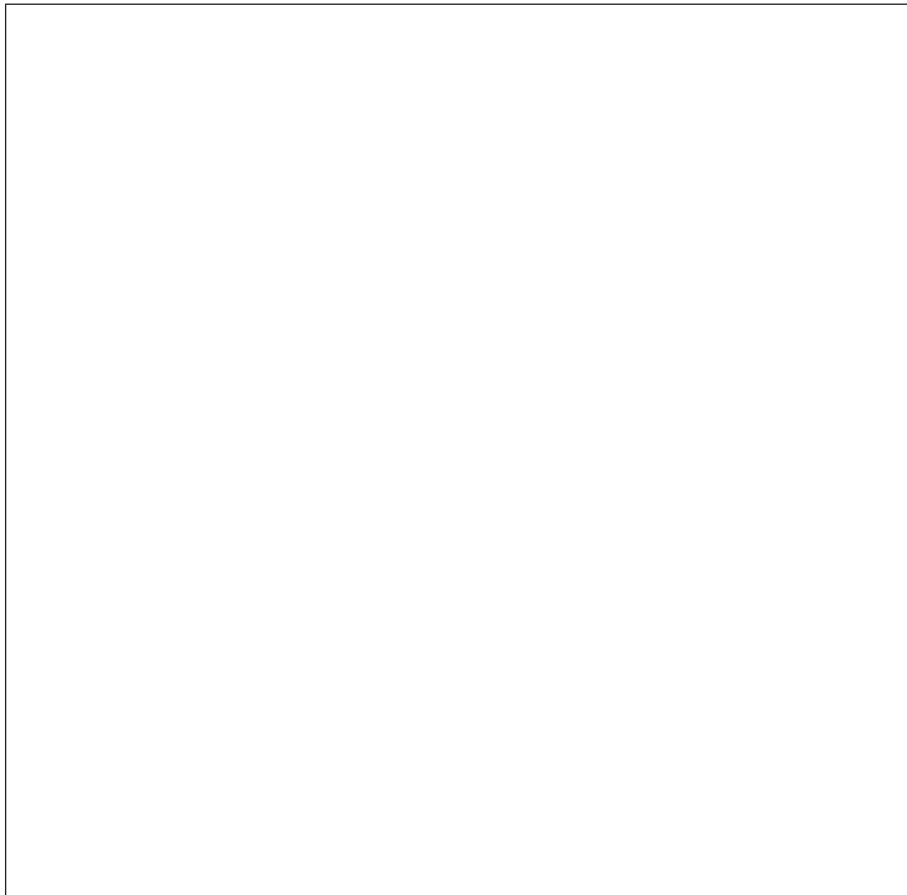
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**5 (c) (i)** Study **Figure 14** on the insert, an aerial photograph of meanders on the River Rede in Northumberland.

Draw a labelled plan to show the characteristics of these meanders.

**[4 marks]**



**5 (c) (ii)** Explain the formation of an ox-bow lake.

**[4 marks]**

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**5 (d) (i)** Study **Figure 15** on the insert, a map showing flooding and flood warnings in part of southern England in 2014.

Describe the pattern shown in **Figure 15**.

**[3 marks]**

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**Total for this question: 25 marks**

**6 Ice on the Land**

**6 (a)** Study **Figure 16** on the insert, a map showing the extent of ice in the Northern Hemisphere during the last Ice Age.

Describe the pattern of ice cover shown in **Figure 16**.

**[3 marks]**

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**6 (b)** Use a case study to provide evidence of the retreat of a glacier.

**[4 marks]**

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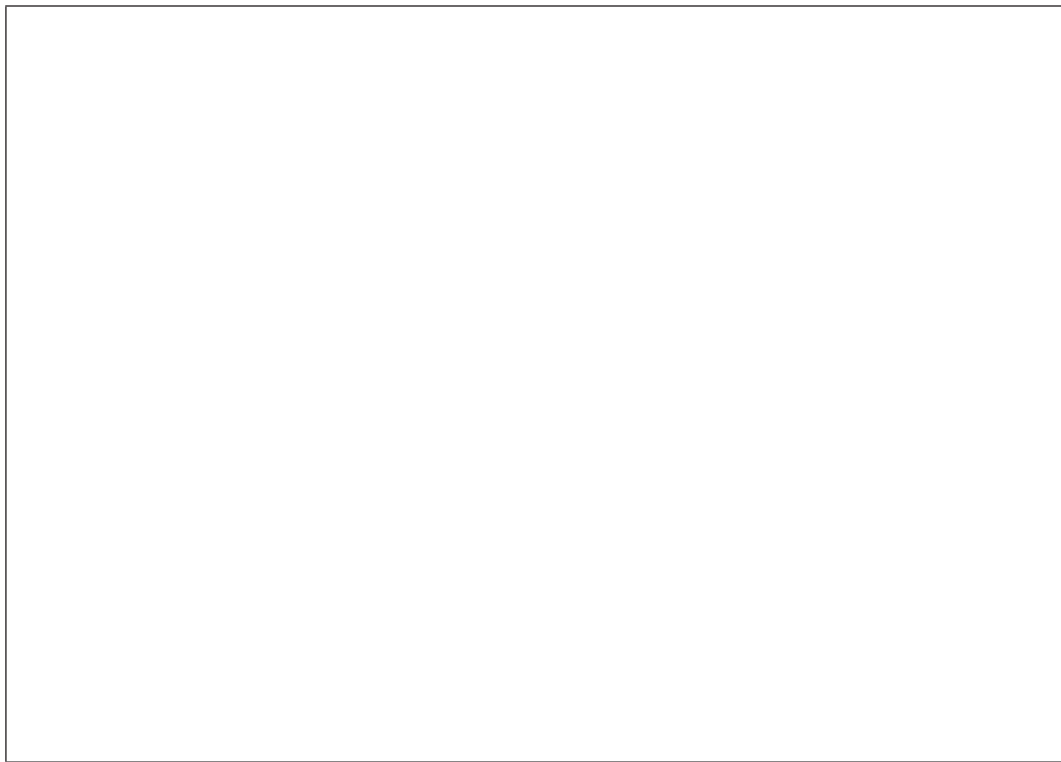
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**6 (c) (i)** Study **Figure 17** on the insert, a photograph of a glacial landscape in Canada.

Draw a labelled sketch to show the features of this glacial landscape.

**[4 marks]**



**6 (c) (ii)** Explain the formation of lateral moraine.

**[4 marks]**

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**Total for this question: 25 marks**

**7 Coastal Zone**

**7 (a)** Study **Figure 19** on the insert, a photograph of waves breaking at Aberystwyth, mid-Wales.

Describe the waves shown in **Figure 19**.

**[3 marks]**

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**7 (b)** Explain how constructive waves shape the coastline.

**[4 marks]**

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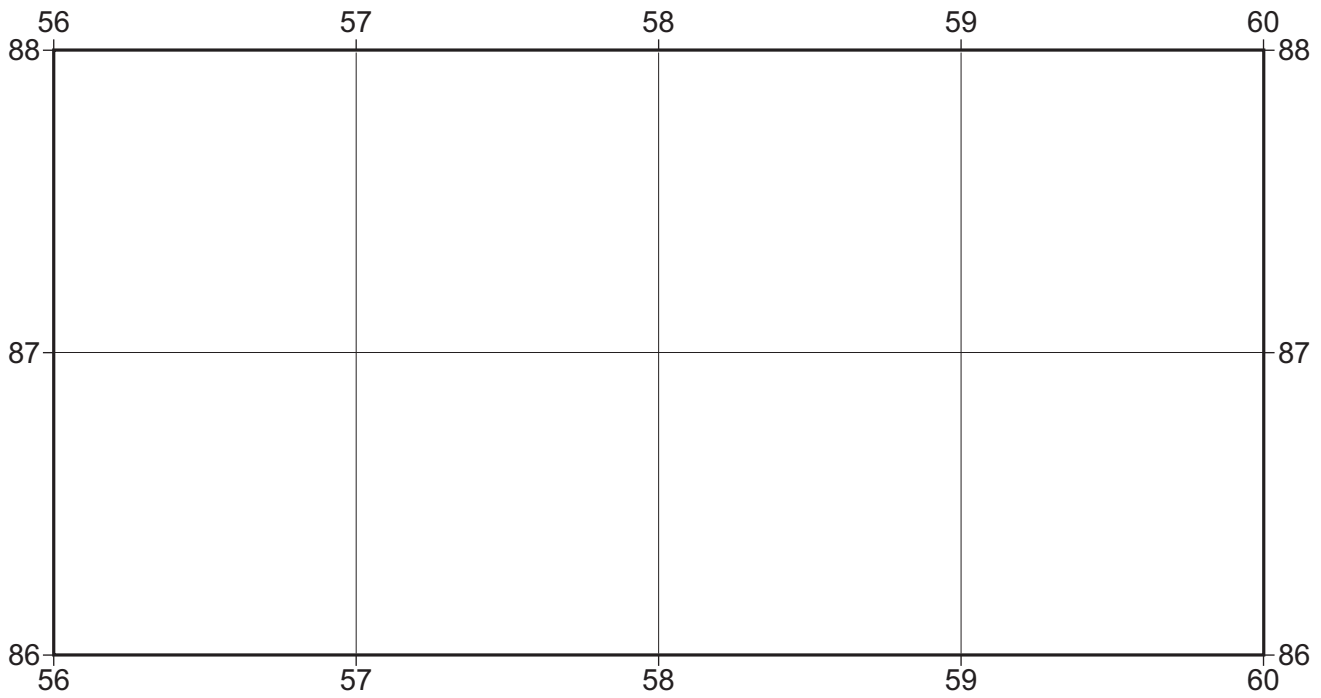
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**7 (c) (i)** Study **Figure 20** on the insert, a 1:25 000 Ordnance Survey map extract of the Gower Peninsula in South Wales.

Draw a labelled sketch map to show the features of this coastline.

**[4 marks]**



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7 (c) (ii) Explain the formation of headlands and bays.

[4 marks]

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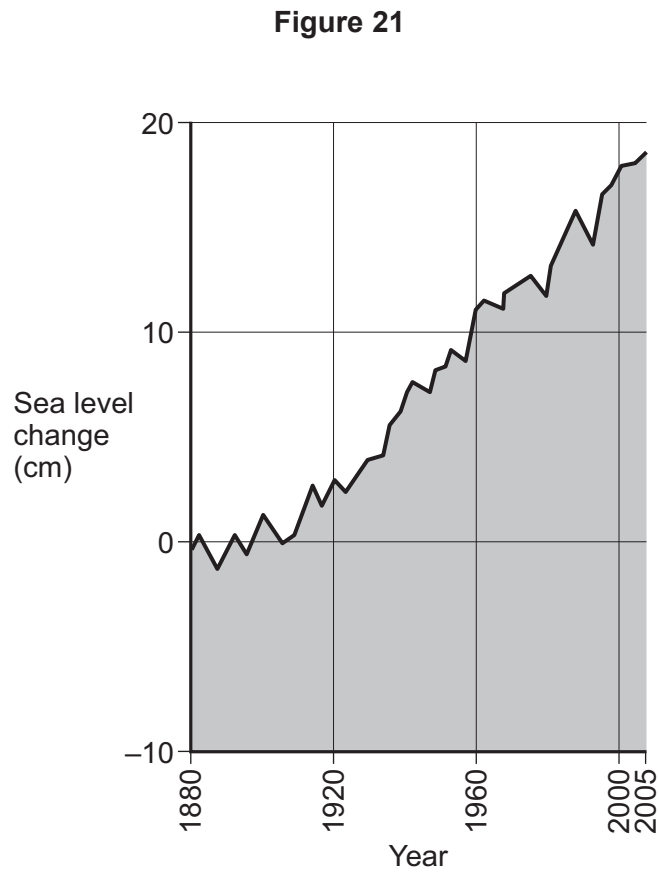
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7 (d) (i) Study **Figure 21**, a graph showing global change in sea level from 1880 to 2005.



Describe the changes in global sea level shown in **Figure 21**.

**[2 marks]**

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