

Surname	Centre Number	Candidate Number
Other Names		2



GCE AS – NEW

B110U10-1



**GEOGRAPHY – AS component 1
CHANGING LANDSCAPES**

TUESDAY, 16 MAY 2017 – AFTERNOON

2 hours 15 minutes

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1.	14	
2.	21	
3.	14	
4.	21	
5.	40	
6.	35	
7.	10	
Total	120	

ADDITIONAL MATERIALS

- a Resource Folder and OS map key for use with questions 1 and 3.
- a calculator.

INSTRUCTIONS TO CANDIDATES

In Section **A**, answer **either** questions 1 and 2 **or** questions 3 and 4.

Answer **all** questions in Section **B** and **all** questions in Section **C**.

Use black ink or black ball-point pen.

Write your name, centre number and candidate number in the spaces at the top of this page.

Write your answers in the spaces provided in this booklet.

If additional space is required you should use the continuation pages at the end of this booklet. The question number(s) should be clearly shown.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part-question; you are advised to divide your time accordingly.

This paper requires that you make as full use as possible of appropriate examples and reference to data to support your answer. Sketch maps and diagrams should be included where relevant.

A plain page is available at the end of each section for you to add any relevant sketch maps and diagrams you may wish to include. The question number(s) should be clearly shown.

Section A: Changing Landscapes

Answer **either** questions 1 and 2 **or** questions 3 and 4 from your chosen landscape.

Make the fullest possible use of examples and data to support your answers.

Either: Coastal Landscapes

Answer questions 1 and 2 if this is your chosen landscape.

1. (a) Use **Figure 1** in the **Resource Folder** to identify and locate **two** landforms on the section of high energy coast from Linney Head (883957) to St Govan’s Head (975927).

Name of landform: [1]

6-figure grid reference: [1]

Name of landform: [1]

6-figure grid reference: [1]

Figure 2: The changing coast at Hornsea, 1996 and 2006



1996



2006

Source: www.blog.geographydirections.com

2. (a) Use Figure 2 to describe the varying impacts of coastal erosion over time. [6]

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Or: Glaciated Landscapes

Answer questions 3 and 4 if this is your chosen landscape.

3. (a) Use **Figure 3** in the **Resource Folder** to identify and locate **two** landforms of glacial erosion.

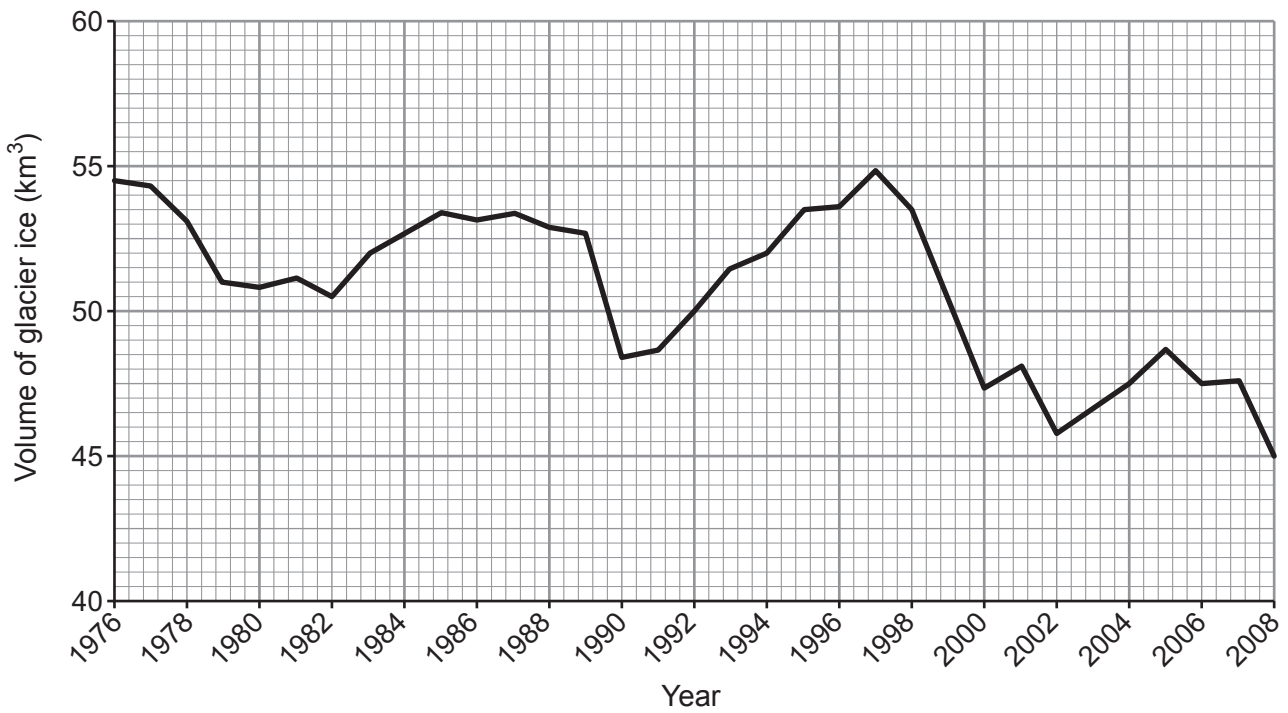
Name of landform: [1]

6-figure grid reference: [1]

Name of landform: [1]

6-figure grid reference: [1]

Figure 4: Volume of glacier ice in the Southern Alps, New Zealand, 1976 to 2008



Source: www.nicholls.edu

4. (a) Use Figure 4 to describe the trends in the volume of glacier ice. [6]

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Section B: Tectonic Hazards

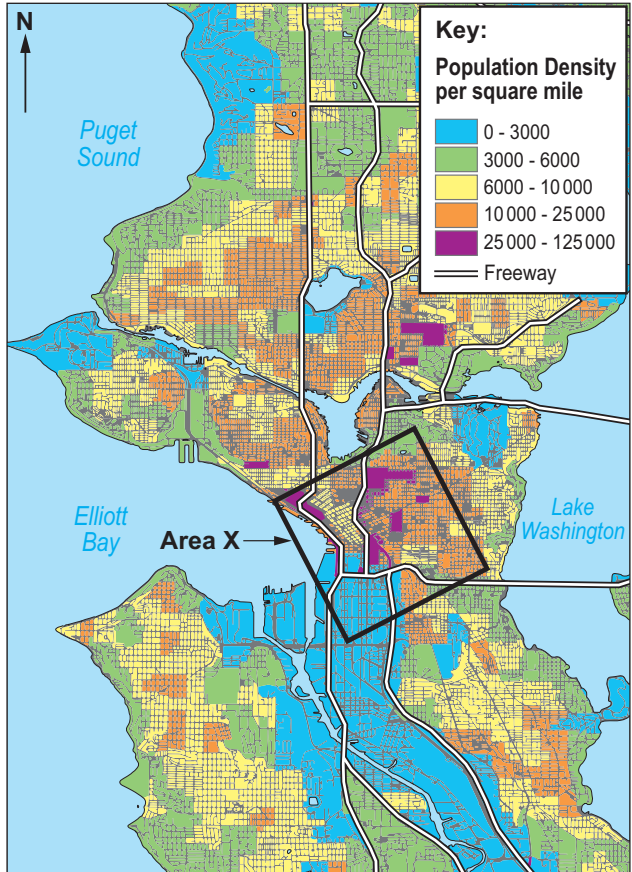
Answer all questions.

Make the fullest possible use of examples and data to support your answers.

Figure 5a: Seismic Hazard map showing levels of earthquake risk in Seattle, USA



Figure 5b: Population density in Seattle, 2010



Source: www.soundseismic.com

5. (a) (i) Use Figure 5a to describe the distribution of earthquake risk in Seattle. [5]

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(ii) Use **Figure 5b** to describe an appropriate sampling strategy that could be used to conduct a survey in Area X on residents' perceptions of the earthquake risk. [3]

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(iii) Justify your choice in (a)(ii). [3]

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(b) Outline the tectonic processes that occur at diverging plate margins. [6]

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Figure 6: The 10 most costly earthquakes since 1900 (adjusted to 2015 values).

Year and location	Cost (US\$ Billions)
1906 San Francisco, USA	9.5
1994 Northridge, USA	20.0
1995 Great Hanshin, Japan	100.0
1999 Taiwan	10.0
2008 Sichuan, China	75.0
2010 Chile	30.0
2011 Christchurch, New Zealand	40.0
2011 Tohoku, Japan	235.0
2012 Emilia Romagna, Italy	13.2
2015 Nepal	10.0

Table adapted from www.cctv-america.com

- (c) (i) Use **Figure 6** to calculate the range of costs shown. You must show your working.

Range: (US\$ Billions) [2]

- (ii) Use **Figure 6** to select and justify **one** cartographic and **one** graphical technique that could be used to present the data.

Cartographic technique: [1]

Justification:

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 [2]

Graphical technique: [1]

Justification:

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 [2]

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Please turn to Section C on page 24

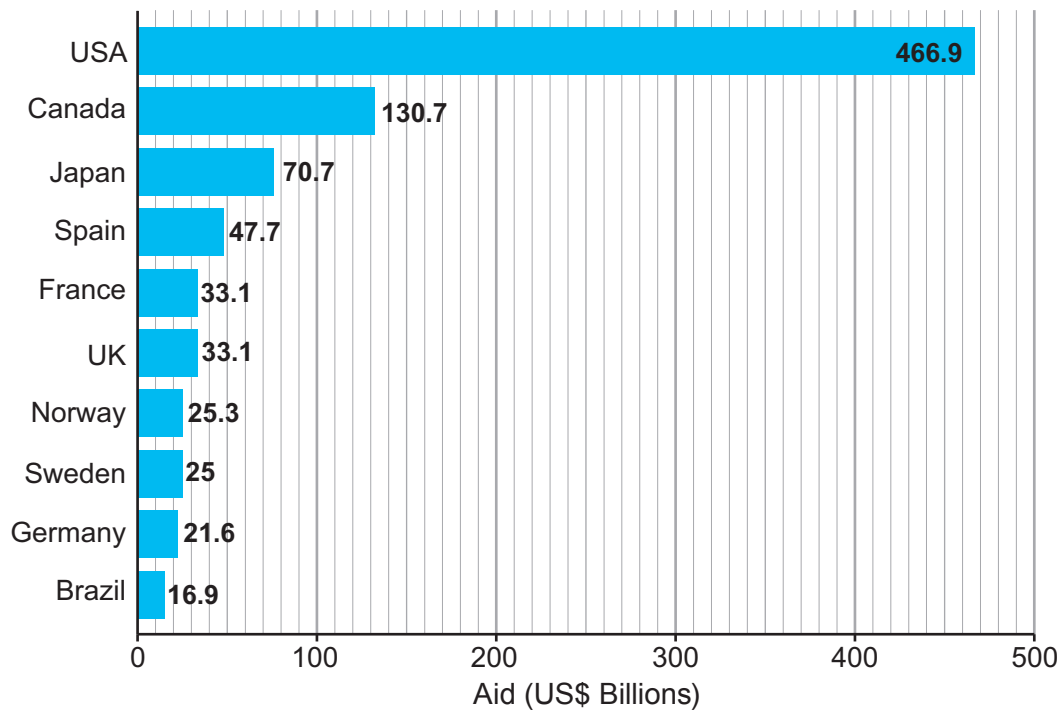
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Section C: Challenges in the 21st Century

7. To what extent can flows of money have positive impacts on places? [10]

*In your answer to question 7, you may use the material in **Figures 7 and 8**, but should apply your knowledge and understanding of the connections between different aspects of this area across the whole specification.*

Figure 7: Top 10 country donors of aid to Haiti following 2010 earthquake



Source: www.life360.com

Figure 8: Camp Immaculée, Port-au-Prince, Haiti, 2015 (5 years after the earthquake)



Source: www.pbs.org

