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|-------------|---------------|------------------|
| Surname     | Centre Number | Candidate Number |
| Other Names |               | 2                |



**GCE AS/A LEVEL – NEW**

2110U10-1



**GEOGRAPHY – AS unit 1  
CHANGING LANDSCAPES**

TUESDAY, 15 MAY 2018 – AFTERNOON

2 hours

| For Examiner's use only |              |              |
|-------------------------|--------------|--------------|
| Question                | Maximum Mark | Mark Awarded |
| 1.                      | 16           |              |
| 2.                      | 16           |              |
| 3.                      | 16           |              |
| 4.                      | 16           |              |
| 5.                      | 22           |              |
| 6.                      | 24           |              |
| 7.                      | 18           |              |
| <b>Total</b>            | <b>96</b>    |              |

**ADDITIONAL MATERIALS**

- A calculator.
- Resource folder.

**INSTRUCTIONS TO CANDIDATES**

Use black ink or black ball-point pen. Do not use gel pen. Do not use correction fluid.  
 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.  
 In Section A, answer **either** questions 1 and 2 **or** questions 3 and 4.  
 Answer **all** questions in Section B.  
 If further space is required you should use the continuation pages at the back 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 answers. Sketch maps and diagrams should be included where relevant.**  
 A plain page is available at the back of the booklet for you to add any relevant sketch maps and diagrams you may wish to include. The question number(s) should be clearly shown.



MAY182110U10101

**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.

**Coastal Landscapes**

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

**Figure 1: Processes of coastal retreat on the North Norfolk coast, UK**

| Place      | Landslides % | Mudflows % | Wind Erosion % | Water Erosion % |
|------------|--------------|------------|----------------|-----------------|
| Weybourne  | 100          | 0          | 0              | 0               |
| Sheringham | 72           | 0          | 28             | 0               |
| Overstrand | 73           | 7          | 0              | 20              |
| Mundesley  | 86           | 0          | 5              | 9               |

Source: north-norfolk.co.uk

1. (a) (i) Use **Figure 1** to describe variations in the processes of coastal retreat for different places in North Norfolk. [5]

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2. (a) (i) Use **Figure 2** in the **Resource Folder** to identify characteristics of both high and low energy coastal environments. [5]

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(ii) Suggest **one** way in which the landform at 900710 (Traeth Mawr) is linked to other landforms as part of the coastal system. [3]

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4. (a) (i) Use **Figure 4** in the **Resource Folder** to identify characteristics of both glacial erosion and deposition. [5]

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(ii) What evidence is there to suggest that Afon Ogwen (633633) is a misfit stream? [3]

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**Figure 5b:** Highway 1, the road that goes around Iceland, is cut off by a flood



**Figure 5c:** Farmers team up to rescue cattle from exposure to the toxic volcanic ash



**Figure 5d:** Basalt and ice deposits hundreds of metres from the river channel

Source: *swisseduc.ch*

- (ii) Using **Figures 5a-5d** suggest how variations in the characteristics of this volcanic eruption resulted in different hazards. [9].

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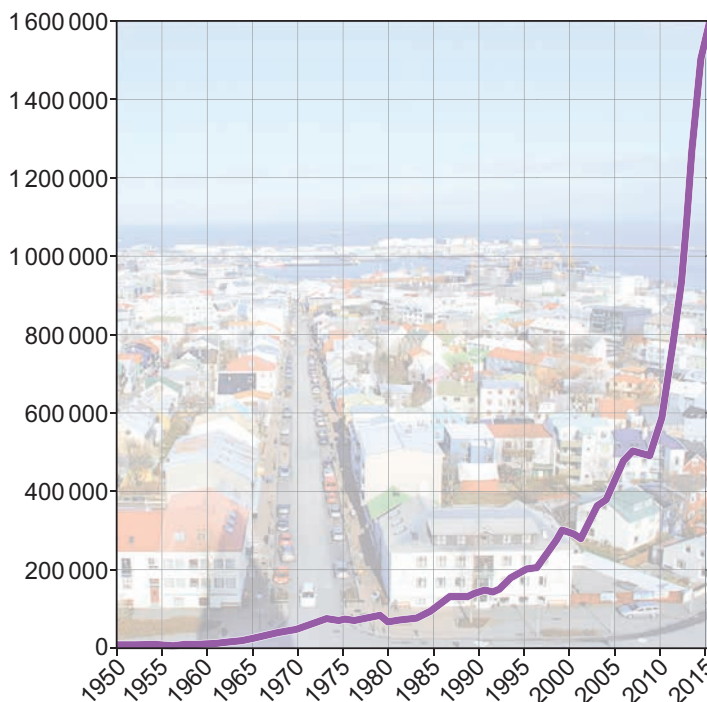
During the eruption of Eyjafjallajökull large volumes of ash in the atmosphere had an impact on air travel. **Figure 6a** shows information concerning the impacts on air transport firms and **Figure 6b** shows the total number of foreign visitors to Iceland since 1950.

**Figure 6a: Costs of disruption to European Airlines**

| Airlines        | Cost to the firm (millions of euros) |
|-----------------|--------------------------------------|
| Aer Lingus      | -7                                   |
| Air France-KLM  | -368                                 |
| British Airways | -368                                 |
| Easyjet         | -338                                 |
| Finnair         | -83                                  |
| Iberia          | -525                                 |
| Lufthansa       | -670                                 |
| Ryanair         | -791                                 |
| SAS             | -229                                 |

Source: core.ac.uk

**Figure 6b: Total foreign visitors to Iceland (1950 to 2016)**



Source: Icelandic Tourist Board

6. (a) (i) State the mode of the costs to firms shown in **Figure 6a**. [1]

Mode: .....

(ii) Calculate the mean of the costs to firms shown in **Figure 6a**. Show your working. [2]

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(iii) Use **Figures 6a and 6b** to suggest how the economic impacts of this eruption varied. [6]

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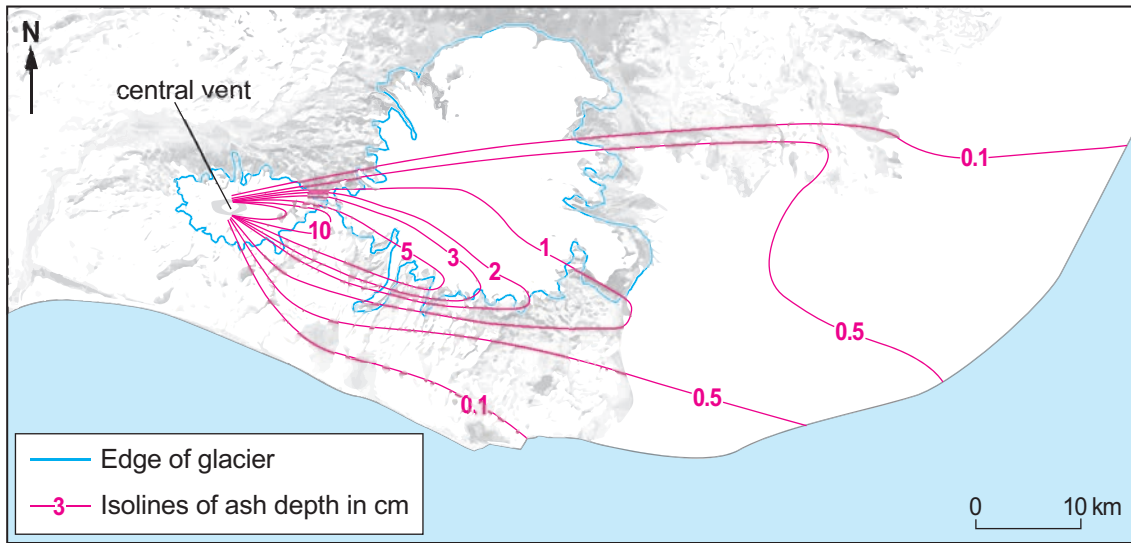
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Figure 6c: Depth of ash fallout (cm) around Eyjafjallajökull 14<sup>th</sup>-16<sup>th</sup> April 2010



Source: researchgate.net

(b) Use **Figure 6c** to describe the pattern of ash fallout around the central vent of Eyjafjallajökull. [5]

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