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Surname

Other names

Pearson Edexcel
Level 3 GCE

Centre Number

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Candidate Number

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Geography

Advanced
Paper 1

Sample assessment material for first teaching
September 2016

Time: 2 hours 15 minutes

Paper Reference

9GE0/01

You must have:

Resource Booklet (enclosed)
Ruler, 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 in Section **A**, and Section **C**. Answer **either** Question 2 **or** Question 3 in Section **B**.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- Calculators may be used.
- Any **calculations** must show all stages of **working out** and a **clear answer**.

Information

- The total mark for this paper is 105.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

Turn over ►

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SECTION A: TECTONIC PROCESSES AND HAZARDS

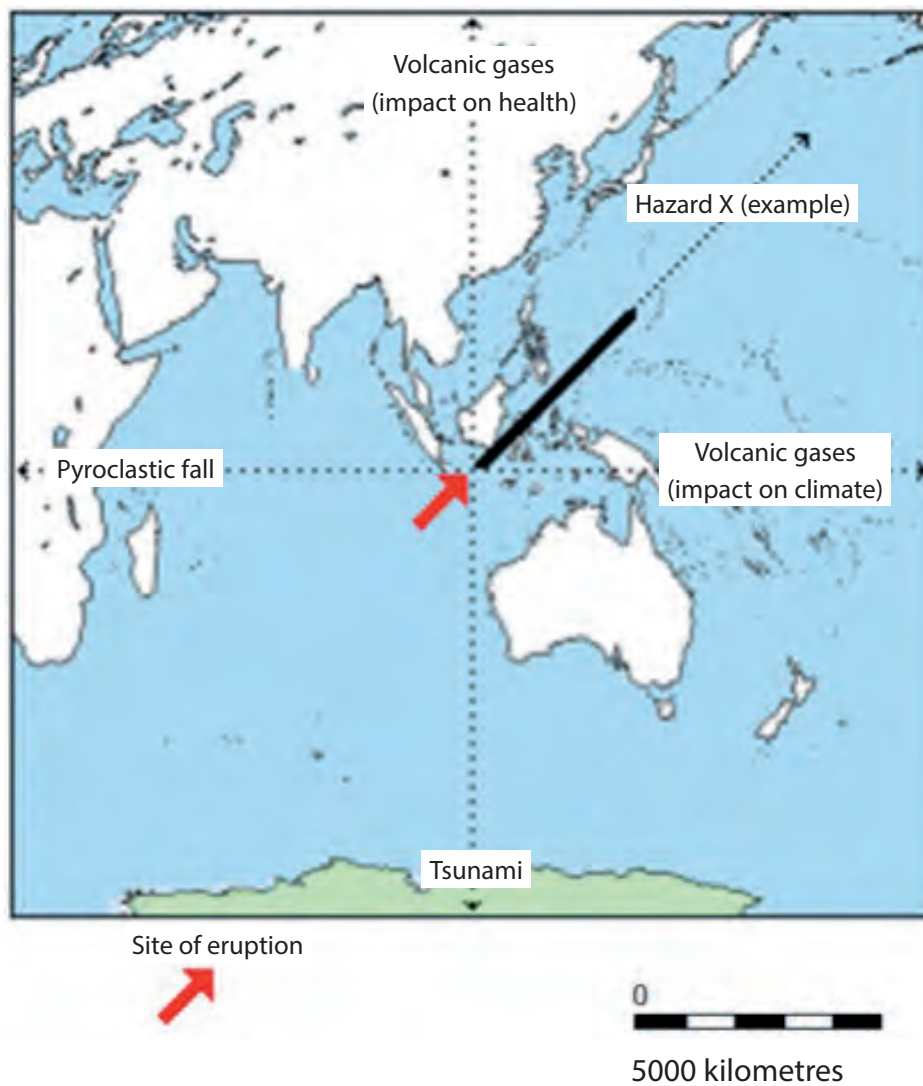
Answer ALL questions in this section. Write your answers in the spaces provided.

You must use the Resource Booklet provided.

- 1 Study Figure 1 in the Resource Booklet.
- (a) For each volcanic hazard shown in Figure 1, draw a line from the site of eruption along the dotted line to show the areal extent of the hazard.

An example is shown for Hazard X.

(4)



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(b) Assess the importance of governance in the successful management of tectonic mega-disasters.

(12)

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(Total for Question 1 = 16 marks)

TOTAL FOR SECTION A = 16 MARKS

SECTION B: LANDSCAPE SYSTEMS, PROCESSES AND CHANGE

Answer ONE question in this section – either Question 2 OR Question 3.

Glaciated Landscape and Change

If you answer Question 2 put a cross in the box .

You must use the Resource Booklet provided.

- 2 Study Figure 2 shows a lowland glaciated landscape during and after glaciation.

Figure 2 shows a lowland glaciated landscape during and after glaciation.

- (a) Study Figure 2A.

Explain how meltwater has contributed to the formation of the proglacial features shown.

(6)

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(b) Study Figure 2B.

Explain how the landforms shown in Figure 2B can be used to help reconstruct ice movement.

(6)

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(c) Explain how the glacial mass balance concept contributes to an understanding of glacial systems.

(8)

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(d) Evaluate the extent to which periglacial landscapes are more vulnerable to climate change than glaciated landscapes.

(20)

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(Total for Question 2 = 40 marks)

Do not answer Question 3 if you have answered Question 2.

Coastal Landscape and Change

If you answer Question 3 put a cross in the box .

You must use the Resource Booklet provided.

3 Study Figure 3.

(a) (i) Explain the formation of the cliff profile shown in photograph 3A.

(6)

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(ii) Explain the influence of rock structure and lithology on the physical features shown in photograph 3B.

(6)

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(b) Explain how the sediment cell concept contributes to the understanding of coastal systems.

(8)

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(c) Evaluate the contribution that changes in sea level make to the formation of coastal landscapes.

(20)

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(Total for Question 3 = 40 marks)

TOTAL FOR SECTION B = 40 MARKS

SECTION C: PHYSICAL SYSTEMS AND SUSTAINABILITY

Answer ALL questions in this section. Write your answers in the spaces provided.

You must use the Resource Booklet provided.

4 Study Figure 4A.

(a) Explain one reason why over-abstraction of groundwater could become a problem for Area A.

(3)

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(b) Explain why river regimes might vary between basins.

(6)

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(c) Explain how physical and human factors contribute to an increased risk of water insecurity.

(8)

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(d) Study Figure 4B.

Assess the likely impacts of climate warming on the components of the carbon cycle shown in Figure 4B.

(12)

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(e) Evaluate the extent to which today's increasing demand for energy is the most important factor modifying the carbon cycle.

(20)

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(Total for Question 4 = 49 marks)

TOTAL FOR SECTION C = 49 MARKS
TOTAL FOR PAPER = 105 MARKS