OXFORD

INTERNATIONAL AQA EXAMINATIONS

Please write clearly in block capitals.

Centre number | | | | | | Candidate number | | | | |

Surname _____

Forename(s) _____

Candidate signature _____

INTERNATIONAL AS

GEOGRAPHY

Paper 1B Physical Geography 1, Coastal systems and landscapes

Friday 10 May 2019 07:00 GMT Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:
- a ruler with millimetre measurements
- a calculator, which you are expected to use where appropriate.

Instructions
- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- All working must be shown.
- Do all rough work in this answer book. Cross through any work you do not want to be marked.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
TOTAL	

Information
- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- You may use a bilingual dictionary for this exam.
- You may **not** use an English dictionary.

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Section A – Living with Hazards

Answer **all** questions in the spaces provided.

You must answer **all** of **Section A**.

Only **one** answer per question is allowed.

For each answer completely fill in the circle alongside the appropriate answer.

CORRECT METHOD  WRONG METHODS 

If you want to change your answer you must cross out your original answer as shown. 

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown. 

0 1 . 1 A nuée ardente can be defined as:

[1 mark]

A a glowing pyroclastic flow. ⬭

B a volcanic mudflow. ⬭

C a mixture of gases and ash ejected high into the atmosphere. ⬭

D different types of lava flowing from a shield volcano. ⬭

0 1 . 2 Which of the following describes the concept of 'fatalism'?

[1 mark]

A Making adaptations and alterations to cope with a hazard in an area. ⬭

B A determining factor whether evacuation is necessary when facing a natural hazard such as an earthquake. ⬭

C An acceptance that hazards are natural events and humans should accept the losses associated with them. ⬭

D A disaster that has catastrophic consequences on not only the affected area and country – but further afield. ⬭

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0 1 . 3 In plate tectonic theory, 'ridge push' refers to which of the following processes?

[1 mark]

A A rise in the mantle and magma underneath the lithosphere at constructive margins. ⬭

B The gravitational pull of a tectonic plate into the mantle layer at destructive margins. ⬭

C The sinking of a plate pulling the remaining areas of plate towards the boundary. ⬭

D The circular movements of semi molten rock that drag the lower parts of tectonic plates. ⬭

0 1 . 4 In February 2009, south-east Australia experienced wildfires. Which of the following describes their primary impact?

[1 mark]

A Large proportions of residents suffered from depression, anxiety and stress. ⬭

B $400 million was raised and donated to rebuild businesses and housing. ⬭

C There was a loss of jobs and income within the region. ⬭

D 4 300 km^2 of land was burned including national parks and forest areas. ⬭

0 1 . 5 Which of the following are **all** associated with tropical storms?

[1 mark]

A Fog, falling air spirals, gentle winds ⬭

B High winds, heavy rains, flooding ⬭

C Diverging winds, high pressure, snow storms ⬭

D Hail, low pressure areas, diverging winds ⬭

5

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Figure 1 shows the most frequent hazards in Haiti between 1990 and 2014.

Figure 1

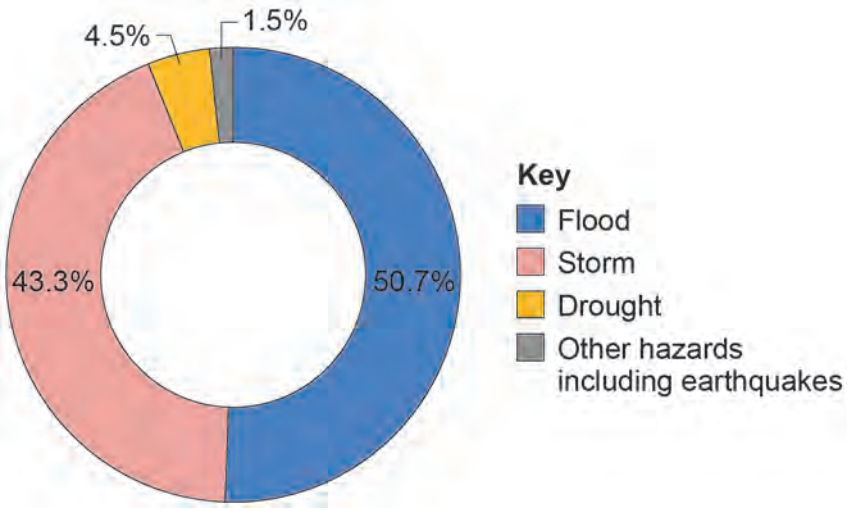
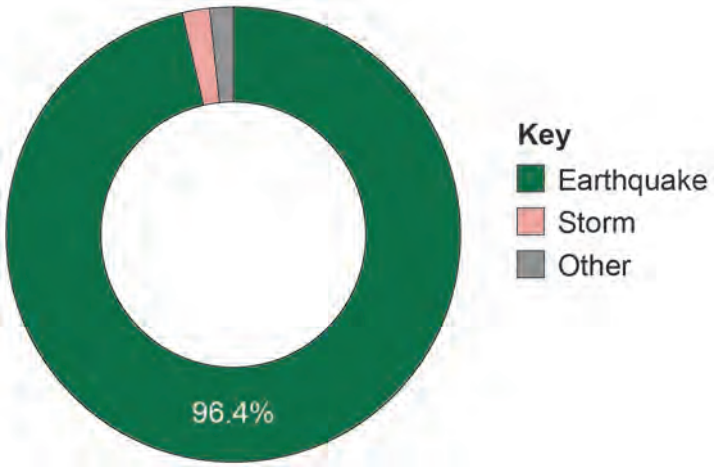


Figure 2 shows the % of deaths in Haiti from particular hazards between 1990 and 2014.

Figure 2



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0 2 Analyse the data shown in **Figure 1** and **Figure 2**.

[6 marks]

Extra space

6

Turn over for the next question

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0 3 To what extent do you agree that secondary impacts caused by seismic hazards are more dangerous than primary impacts?

[9 marks]

Extra space

9

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0 4 ‘Human responses, preparation and the hazard management cycle allow people to live in hazard risk zones.’

Evaluate this statement with reference to examples you have studied.

[20 marks]

Answer lines for Question 4 continue on the next page

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20

END OF SECTION A

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Section B – Coastal Systems and Landscapes

Answer **all** questions in the spaces provided.

You must answer **all** of **Section B**.

Only **one** answer per question is allowed.

For each answer completely fill in the circle alongside the appropriate answer.

CORRECT METHOD  WRONG METHODS 

If you want to change your answer you must cross out your original answer as shown. 

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown. 

0 5 . 1 Which of the following are typical characteristics of constructive waves?

[1 mark]

A High frequency, short wave length, high wave height ⬭

B Low frequency, longer wave length, low wave height ⬭

C Low frequency, short wave length, powerful backwash ⬭

D High wave frequency, long wave length, weak swash ⬭

0 5 . 2 Which coastal process can be described as: 'receding waves allowing compressed air to expand and release pressure on surrounding rocks causing pieces to break off'?

[1 mark]

A Solution ⬭

B Abrasion ⬭

C Cavitation ⬭

D Attrition ⬭

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0 5 . 3 Which of the following is a cause of tectonic sea level change?

[1 mark]

A Increase of temperature melts ice sheets and increases sea level. ⬭

B Accumulation of large amounts of sediment at river estuaries and deltas. ⬭

C A decrease in temperature increasing the amount of water stored as ice and glaciers. ⬭

D Sea floor spreading increasing the size of an ocean basin causing sea levels to fall. ⬭

0 5 . 4 A Dalmatian coast is:

[1 mark]

A when a river valley is semi submerged when the sea level rises relative to the coast. ⬭

B when ridges and valleys run parallel to the coast, leaving a string of islands just offshore when sea level rises. ⬭

C an area of beach above the current high tide mark, created when the sea level has fallen. This area may become vegetated. ⬭

D a drowned glacial valley as a result of sea level rise. These are often straight with steep sides. ⬭

0 5 . 5 A tombolo can be described as:

[1 mark]

A longshore drift moves material to create a spit across a bay and a lagoon behind. ⬭

B wind-blown sand builds up and mounds of sand become vegetated. ⬭

C an estuarine salt marsh environment where a river mouth meets the sea. ⬭

D material is deposited to create a spit, which joins the mainland to an island. ⬭

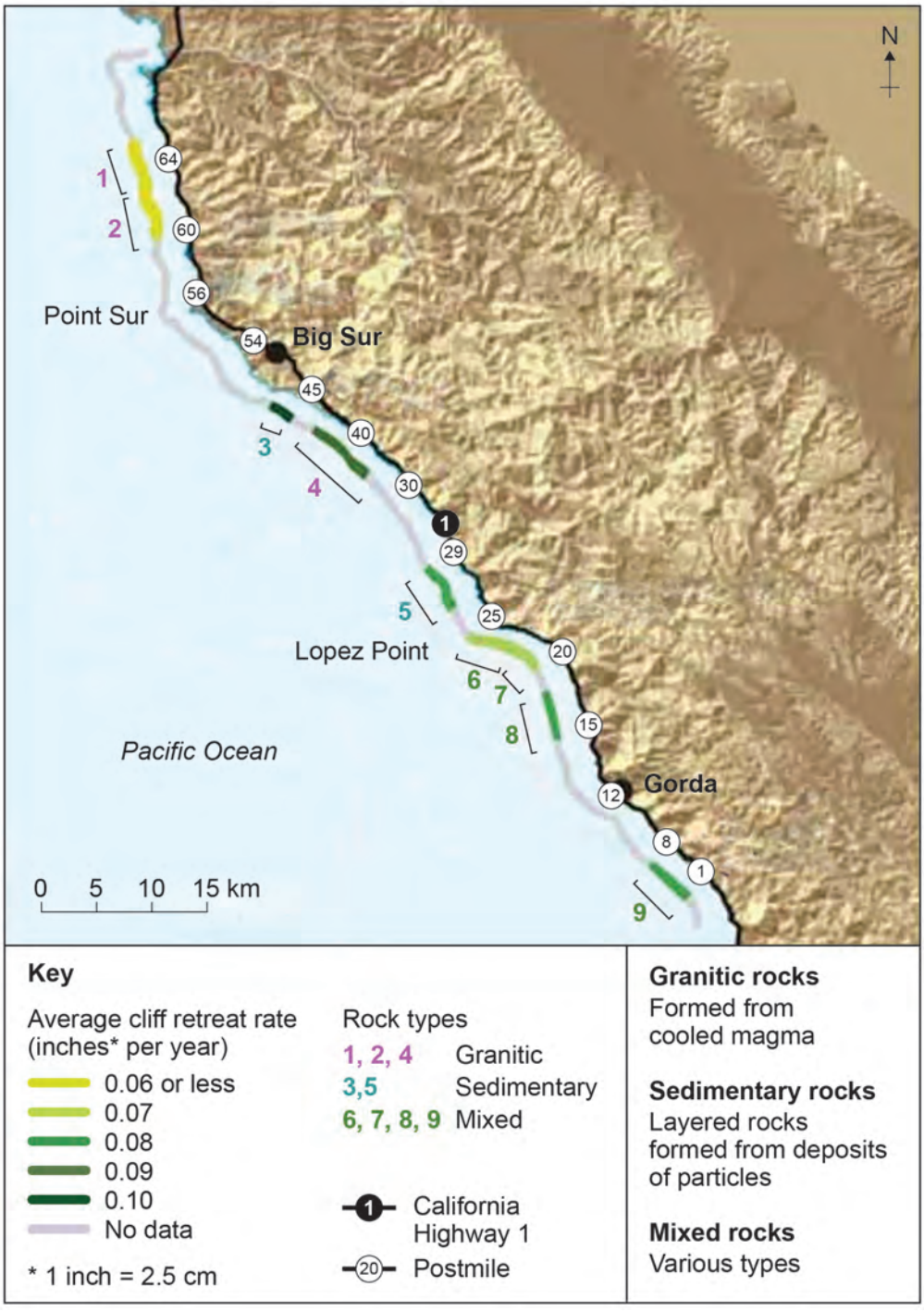
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Turn over for the next question

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Figure 3 shows erosion rates and rock types along a part of the coastline in California, USA.

Figure 3



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0 6 Analyse the data shown in **Figure 3**.

[6 marks]

Extra space

6

Turn over for the next question

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0 7 With reference to a coastal environment you have studied, assess the extent to which deposition is important in shaping its coastal landscape.

[9 marks]

Extra space

9

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0 8 ‘Sustainable management of coastal areas is easily achievable.’

Assess the extent to which this statement is true in **one or more** coastal areas that you have studied.

[20 marks]

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20

END OF QUESTIONS

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ANSWER IN THE SPACES PROVIDED

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Question number	**Additional page, if required.** **Write the question numbers in the left-hand margin.**
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