OXFORD

INTERNATIONAL
AQA EXAMINATIONS

Please write clearly in block capitals.

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

Surname _____

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I declare this is my own work.

INTERNATIONAL AS

GEOGRAPHY

Paper 1B Physical Geography 1 Coastal Systems and Landscapes

Monday 13 January 2020 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.
- All working must be shown.
- 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).
- Do all rough work in this book. Cross through any work you do not want to be marked.

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.

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

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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 question 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 Risk sharing in a hazardous environment is:

[1 mark]

A accepting a hazard cannot be avoided and accepting the fate and consequences. ⬭

B splitting the costs and response strategies to reduce the potential impact of a hazard, often using insurance. ⬭

C the wealthier the people in a population, the more able they are to move away from a risk area. ⬭

D working out where and when a hazard is likely to occur and then evacuating the population from this area. ⬭

0 1 . 2 Which of the following are **all** causes of wildfires?

[1 mark]

A Air pollution; broken cables; forest management teams ⬭

B Air pollution; campfires; lightning ⬭

C Cigarettes; lightning; volcanic eruptions ⬭

D Damaged reservoirs; people; tourists ⬭

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0 1 . 3 A storm surge can be described as:

[1 mark]

A a decrease in sea level caused by strong winds and low pressure, pushing water towards the coast. ⬭

B a tsunami wave, moving water towards a coast after tectonic processes have occurred underwater. ⬭

C sea level rising as a result of low pressure and high winds, pushing water towards the coast. ⬭

D sea level rising caused by fast wind speeds and high pressure air, pulling water towards the coast. ⬭

0 1 . 4 'Two tectonic plates move away from each other which releases pressure on the surface. This causes the mantle to melt and releases magma, which creates low-intensity earthquakes and volcanic eruptions.' This describes:

[1 mark]

A conservative margins. ⬭

B constructive margins. ⬭

C destructive margins. ⬭

D slab pull. ⬭

0 1 . 5 Which of the following is an appropriate way to prepare for a volcanic hazard?

[1 mark]

A Build only in areas where volcanic vents have appeared before as eruptions are unlikely to occur from there again. ⬭

B Install monitoring systems to help predict when the volcano might erupt and plan for evacuation. ⬭

C Rebuild homes and offices immediately if tephra and ash land on them. ⬭

D Take advantage of the jobs in the agriculture and tourism industries presented by the volcano. ⬭

5

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Figure 1a shows data about tropical storm Kenneth, which hit southern Africa, including Mozambique, in April 2019.

Figure 1a

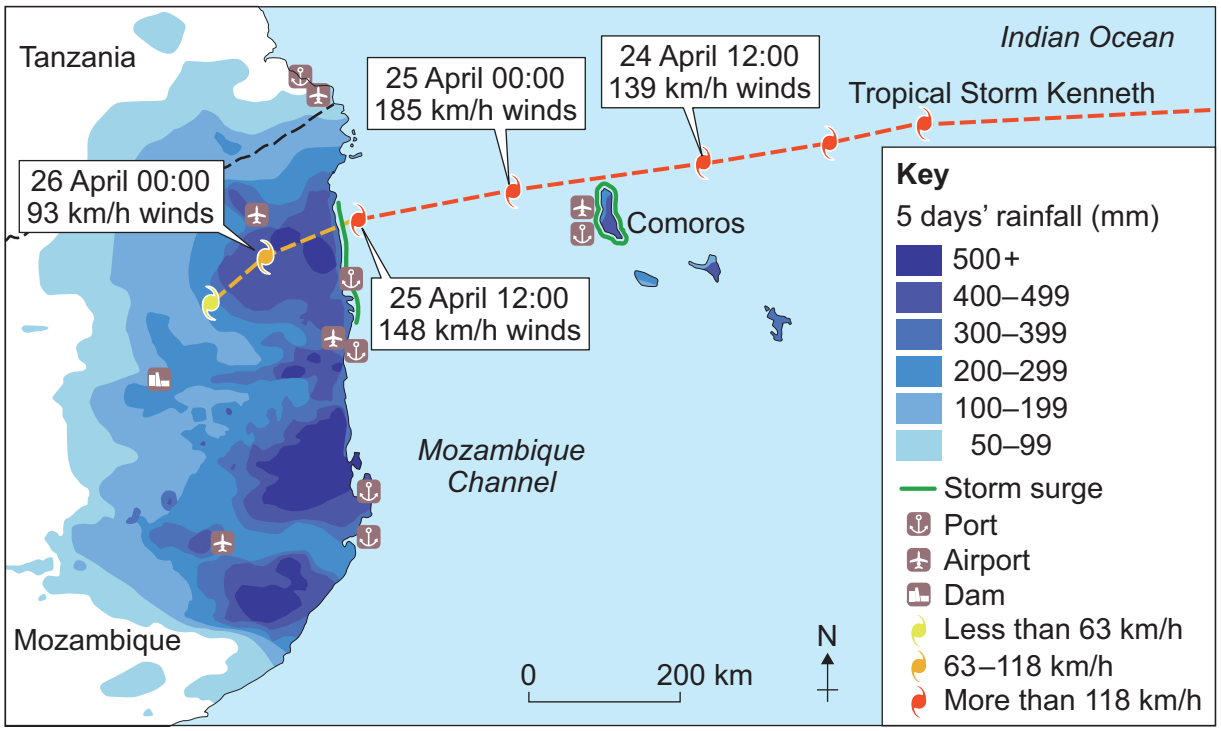
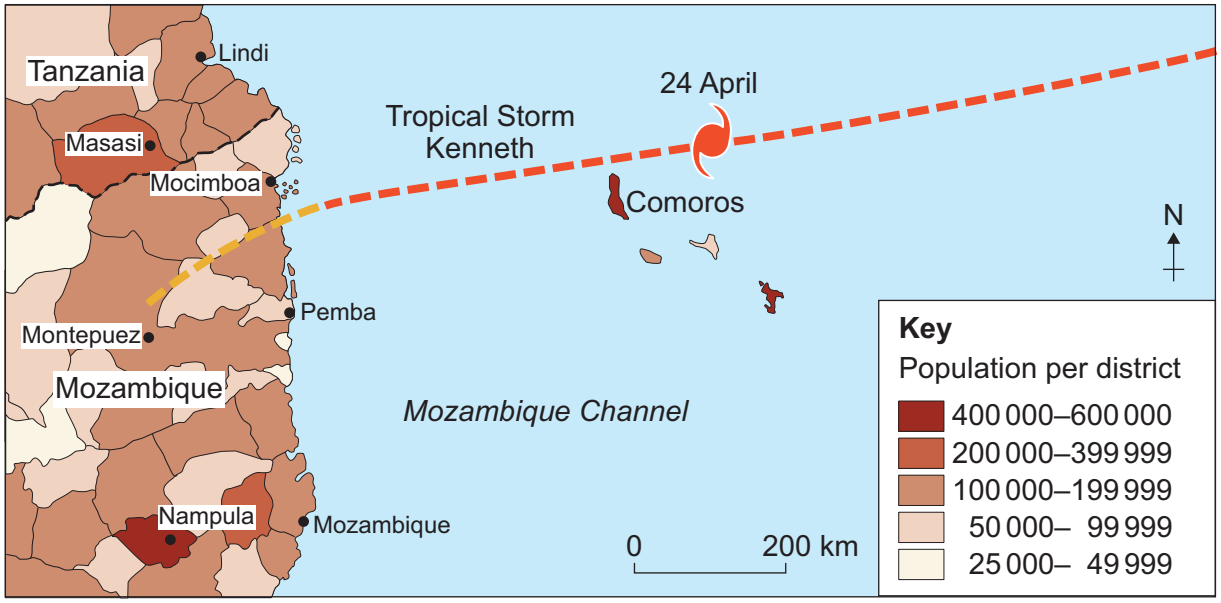


Figure 1b shows population per district for the area shown in **Figure 1a**.

Figure 1b



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

[6 marks]

Extra space

6

Turn over for the next question

Do not write outside the box

0 3 Assess the role of destructive margins in creating landforms associated with volcanic activity.

[9 marks]

Extra space

9

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0 4 ‘Risk management (such as preparedness, mitigation and adaptation) can reduce the impacts of earthquakes more than the impacts of wildfires.’

Evaluate the extent to which you agree with this statement.

[20 marks]

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Extra space

Do not write outside the box

20

END OF SECTION A

Turn over for the next section

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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 question 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 strategy can be described as hard engineering?

[1 mark]

A Allowing a zone of marshland to be naturally created, vegetated and maintained. ⬭

B Beach nourishment, a process that adds sand to the beach to replenish what has been removed by littoral drift. ⬭

C Building a large, solid, wooden structure called a revetment next to the cliffs on a beach. ⬭

D Zoning the coast so only low-value activities are close to areas of coastal erosion. ⬭

0 5 . 2 Which coastal process can be described as: 'sediments are pushed at various speeds and distances along the sea bed by the force of the water'?

[1 mark]

A Littoral drift ⬭

B Mass movement ⬭

C Suspension ⬭

D Traction ⬭

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0 5 . 3 The sediment budget of a coast can be described as:

[1 mark]

A a retreat of a coastline when the outputs of sediment are greater than the inputs. ⬭

B the balance between inputs and outputs of sediment within a coastal system. ⬭

C the range of sources of sediment acting as inputs to the coastal system. ⬭

D time periods when more sediment enters the coastal system than leaves a coastal system, building up the coastline. ⬭

0 5 . 4 Which coastal feature is formed by the following sequence of processes?

- Deposited materials are moved up a beach by wind.
- These deposits may become colonised by grasses which can stabilise the deposits.
- Over time the feature migrates inland as newer deposits are created closer to the shoreline.

[1 mark]

A Barrier beaches ⬭

B Estuarine mudflats ⬭

C Fjords ⬭

D Sand dunes ⬭

0 5 . 5 Scientists predict an increase in global temperatures and a likely rise in sea levels. Which of the following is a likely impact from climate change and sea level rise?

[1 mark]

A Creation of more rias and Dalmatian coastlines. ⬭

B Increase in marine platforms and reduction of coastal erosion. ⬭

C Increased numbers of raised beaches which may become vegetated. ⬭

D Less frequent and more predictable coastal flooding of low lying areas. ⬭

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Figure 2a shows changes in sand levels in Coolangatta Bay, on the east coast of Australia between **2007** and **2009**.

Figure 2a

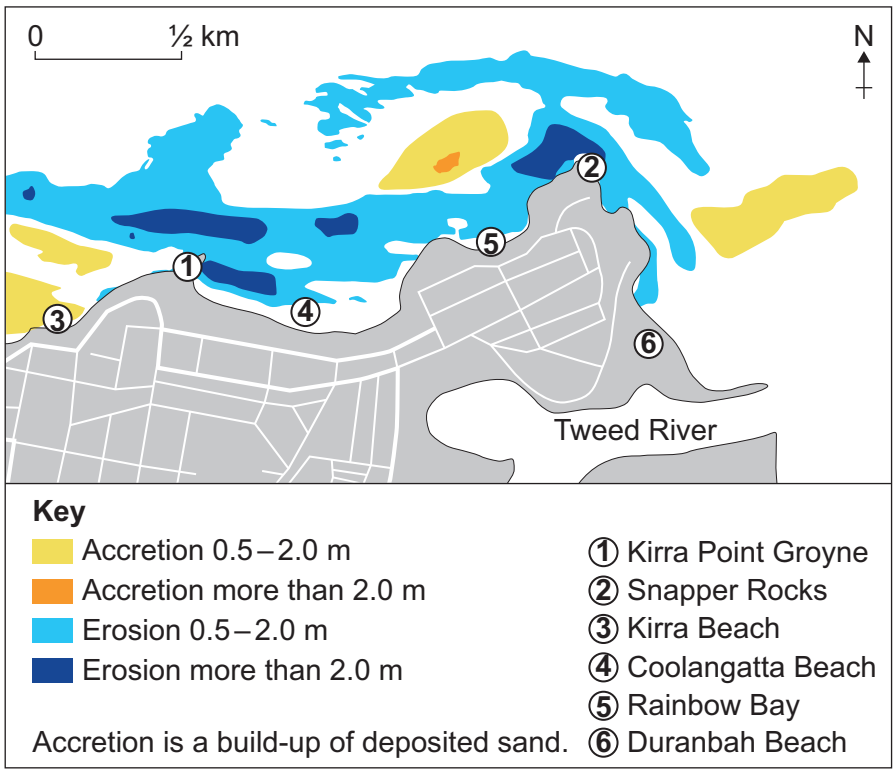
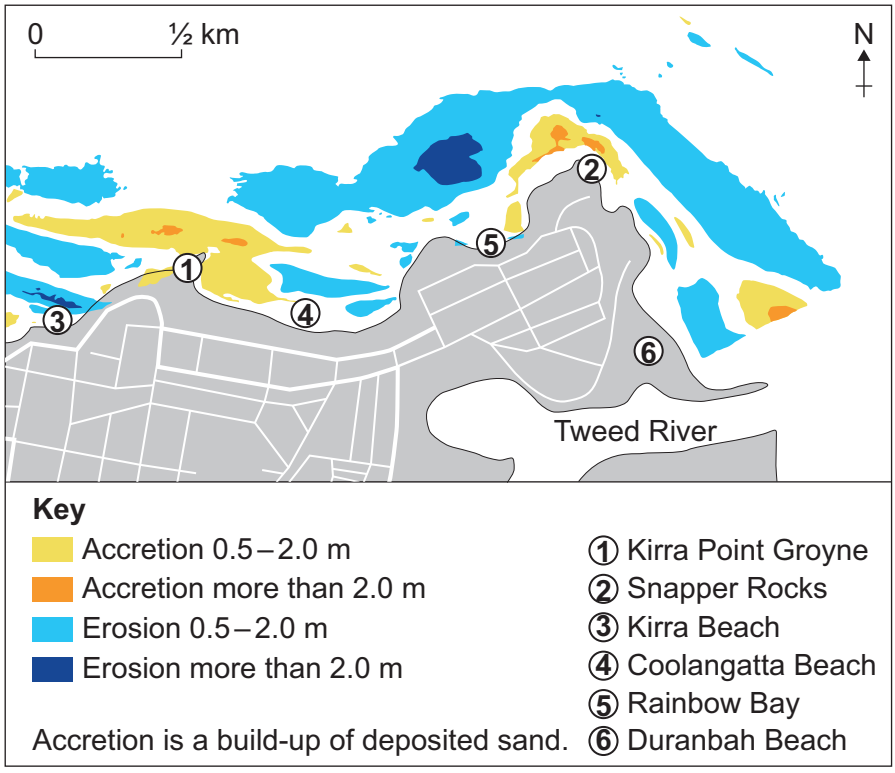


Figure 2b shows changes in sand levels in Coolangatta Bay, on the east coast of Australia between **2009** and **2012**.

Figure 2b



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0 6 Compare the changes of sand levels between **Figure 2a** and **Figure 2b**.

[6 marks]

Extra space

6

Turn over for the next question

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0 7 ‘There are more risks than opportunities for human occupation and development in coastal landscapes.’

With reference to a coastal landscape you have studied, discuss the extent to which you agree with this statement.

[9 marks]

Extra space

9

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0 8 ‘Climate change is likely to significantly alter the balance of coastal systems and the landscapes they create.’

Discuss the extent to which you agree with this statement.

[20 marks]

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END OF QUESTIONS

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ANSWER IN THE SPACES PROVIDED

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