

Tuesday 24 May 2016 – Afternoon

GCSE GEOGRAPHY B

B561/02 Sustainable Decision Making Exercise (SDME) (Higher Tier)

Candidates answer on the Question Paper.

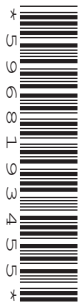
OCR supplied materials:

- Resource Booklet (B561/01/02/RB – inserted)

Other materials required:

None

Duration: 1 hour 30 minutes



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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INSTRUCTIONS TO CANDIDATES

- The Resource Booklet will be found inside this document.
- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the bar codes.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- You will be assessed on the quality of written communication in your answer to questions 2, 3, 4 and 5.
- Resources 1–9 are contained in the Resource Booklet.
- The total number of marks for this paper is **40**.
- This document consists of **12** pages. Any blank pages are indicated.

Answer **all** the questions.

1 Use **Resource 1** in the Resource Booklet and your own knowledge.

(a) What percentage (%) of the population of Belgium live within 50km of the sea?

..... [1]

(b) Compare the percentage of the population of Belgium and the UK who live within 5 km of the sea.

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..... [1]

(c) Give **two** effects coastal erosion can have on people in the UK who live close to the sea.

1
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2
..... [2]

2 Use **Resource 2** in the Resource Booklet and your own knowledge.

Identify and describe **one** of the coastal landforms shown in **Resource 2**. Explain how named coastal processes have shaped **this** landform.

You may include a labelled diagram in the space below.

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[6]

3 Use **Resource 3** in the Resource Booklet and your own knowledge.

Resource 3 shows different ways in which coasts are being protected.

Choose **one** method from **A, B** or **C** and **one** method from **D, E** or **F**.

For **each** method chosen, describe how it protects the coast and give reasons why it is a good, sustainable solution to coastal erosion.

Chosen method **A, B** or **C**

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Chosen method **D, E** or **F**

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[8]

4 Use **Resources 4, 5 and 6** in the Resource Booklet and your own knowledge.

Different people had different opinions about the coastal protection scheme at Lyme Regis.

Choose **two** people from **Resource 6** who may have had different opinions and explain in detail why they had those opinions.

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[6]

5 Use **Resources 7, 8 and 9** in the Resource Booklet and your own knowledge.

You have been asked to prepare a report for the National Trust suggesting the best option for the future management of Mullion Cove and the surrounding area. Three options are to be discussed.

OPTION 1

Construct a breakwater beyond the harbour and continue to maintain it and the harbour walls

- Construct a 50 metre × 7 metre rock breakwater beyond the existing harbour walls, costing up to £3.0 million to build
- Maintenance of the breakwater will cost £3.2 million over 100 years
- The breakwater will be visible at all times of the tide
- The breakwater will reduce pressure on the harbour walls by up to 30%
- Future storms may increase costs, but the effect is unknown

OPTION 2

Maintain and repair the harbour walls unless a major storm causes significant damage

- The current condition of the harbour walls suggests they will last for 20–50 years
- If the walls last for 20 years the cost is £2.0 million, for 50 years it is £2.8 million
- Stop all maintenance and repair if a major storm causes significant damage
- If a significant storm happens in less than 20 years' time the cost will be less
- Future storms make it impossible to predict when a major event could cause significant damage

OPTION 3

Stop maintenance and repair and allow the harbour walls to gradually be eroded by the sea

- Stop maintenance and repair of the harbour, all damaged walls will be safely removed
- In 20–50 years the harbour walls will have gradually eroded away, but a major storm could make them disappear much more quickly
- With no harbour walls there will be an unknown cost of damage to buildings nearby
- Mooring and launching of boats will become difficult
- Regularly removing the damaged harbour walls will cost much less than option 1 or 2

Task

Choose **one** of the above options.

Write your report, which should:

- explain the reasons why your chosen option is a sustainable solution for Mullion Cove and the surrounding area
- explain the disadvantages of your chosen option
- suggest an alternative plan, different from the options listed above, that may result in a different sustainable solution from the one you have chosen. **[16]**

Option chosen

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END OF QUESTION PAPER

ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

A large area of lined paper for writing. It consists of a vertical solid line on the left side, creating a margin. To the right of this line, there are numerous horizontal dotted lines extending across the width of the page, providing space for writing answers.

Lined writing area with horizontal dotted lines and a vertical margin line on the left side.

A large area of the page is reserved for writing, featuring a vertical solid line on the left side and horizontal dotted lines extending across the page.



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