

Tuesday 24 May 2016 – Afternoon

GCSE GEOGRAPHY B

B561/01 Sustainable Decision Making Exercise (SDME) (Foundation 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	
--------------------	--	-------------------	--

Centre number						Candidate number				
---------------	--	--	--	--	--	------------------	--	--	--	--

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 question 5(a).
- 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) Circle below the percentage (%) of the UK population living within 5 km of the sea.

63% 32% 50% [1]

(b) Which country has the greatest percentage of the population living within 5 km of the sea?

..... [1]

(c) State **two** ways people living near to the sea are affected by coastal erosion.

1

.....

2

.....

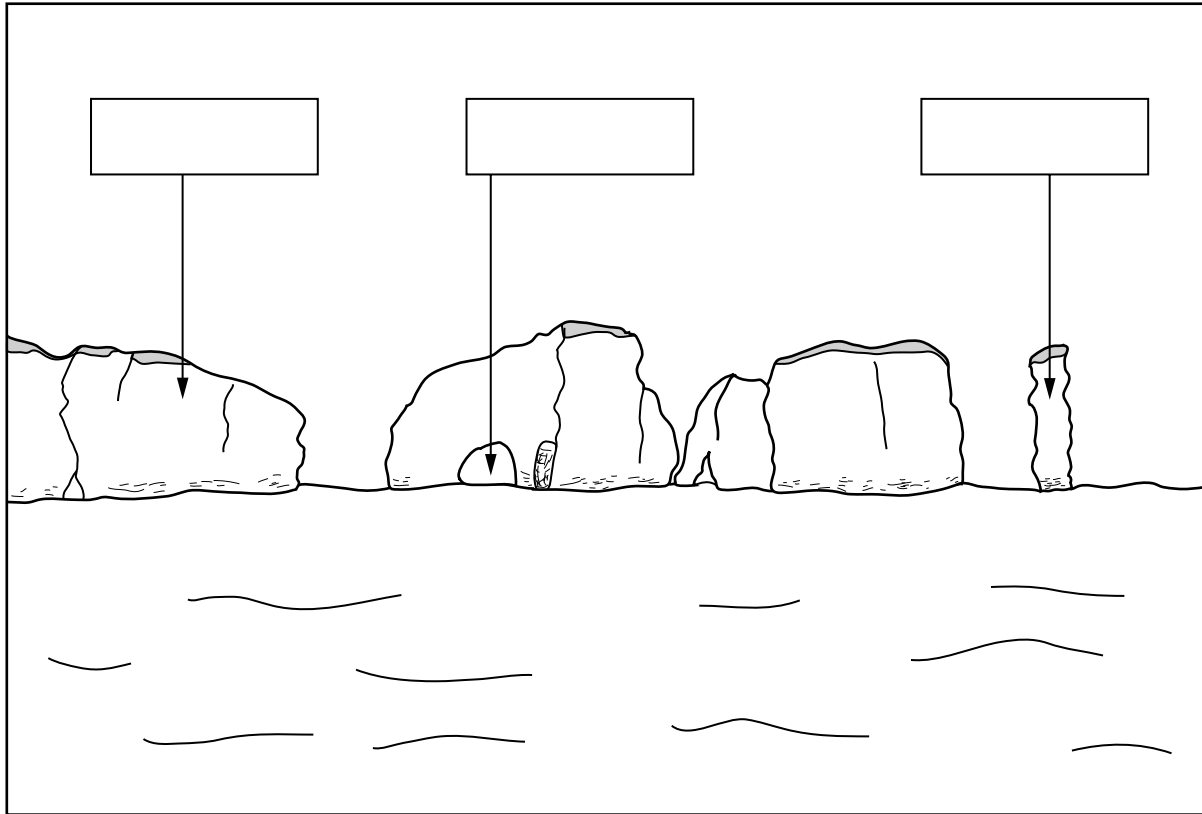
[2]

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

(a) The sketch below shows the main coastal landforms in **Resource 2**. Name the **three** landforms in the boxes provided. Choose from the following list.

arch cliff stack stump wave-cut platform

[2]



(b) Describe **one** of the coastal landforms chosen from the list in (a) above.

Name the landform chosen

Description

.....
.....
..... [2]

(c) Name and describe a type of coastal erosion that may have shaped the landform named in (b).

.....
.....
..... [2]

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

(a) (i) Choose method **A**, **B** or **C** from **Resource 3** and explain why it is a good solution to coastal erosion.

Chosen method

.....
.....
.....
.....
.....
..... [3]

(ii) Give **one** disadvantage of this method of coastal protection.

.....
.....
..... [1]

(b) (i) Choose method **D**, **E** or **F** from **Resource 3** and explain how it prevents coastal erosion.

Chosen method

.....
.....
.....
.....
..... [2]

(ii) Explain why this method of coastal protection is sustainable.

.....
.....
.....
..... [2]

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

- (a) Identify **one** of the people from the list in **Resource 6** who would have been pleased with the coastal protection scheme at Lyme Regis. Explain why they would have been pleased.

Person

.....
.....
.....
.....
.....
.....
.....
.....

[3]

- (b) Identify **one** of the people from the list in **Resource 6** who would **not** have been pleased with the coastal protection scheme at Lyme Regis. Explain why they would **not** have been pleased.

Person

.....
.....
.....
.....
.....
.....
.....
.....

[3]

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.

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 options above.

Chosen Option

(a) Give reasons to explain why you think your chosen option is a good solution for Mullion Cove and the surrounding area.

Dotted lines for writing answer (a). [6]

(b) Suggest disadvantages of your chosen option.

Dotted lines for writing answer (b). [3]

(c) Explain why you rejected **each** of the other **two** options.

.....

.....

.....

.....

.....

.....

.....

.....

..... [4]

(d) Suggest advantages of **one** of the other options.

.....

.....

.....

.....

.....

.....

.....

.....

..... [3]

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.

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.



Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact the Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.