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**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
GENERAL CERTIFICATE OF SECONDARY EDUCATION**

B561/01

GEOGRAPHY B

Sustainable Decision Making (SDM) (Foundation Tier)

MONDAY 13 JUNE 2011: Morning

DURATION: 1 hour

SUITABLE FOR VISUALLY IMPAIRED CANDIDATES

Candidates answer on the question paper.

OCR SUPPLIED MATERIALS:

None

OTHER MATERIALS REQUIRED:

Resource booklet (B561/01/02/RB – previously supplied)

READ INSTRUCTIONS OVERLEAF

INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes on the first page. Please write clearly and in capital letters.
- Use black ink. Pencil may be used for graphs and diagrams only.
- 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 pages at the end of this booklet. The question number(s) must be clearly shown.
- Answer ALL the questions.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- You will be awarded marks in Questions 4(b) and 5(a) for the quality of written communication of your answer.
- Resources 1–8 are contained in the Resource Booklet.
- The total number of marks for this paper is 40.

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SECTION A: THE BACKGROUND

QUESTION 1

Use RESOURCE 1.

- (a) (i) Which coastal protection method has the longest lifespan?

_____ [1]

- (ii) Which method is the most expensive per metre?

Circle the correct answer.

SEA WALLS

GROYNES (WOODEN)

REVETMENTS (WOODEN)

[1]

- (b) Gabions are a cheap coastal protection method.

- (i) Describe how gabions protect the coast.

_____ [2]

(ii) Give TWO reasons why they are only a short term measure.

[2]

[Total: 6]

QUESTION 2

Use RESOURCE 2.

- (a) Complete the table by showing the amount of erosion at Y, between 1999 and 2006.

| SITE | AMOUNT OF EROSION 1999–2006 |
|------|--------------------------------|
| X | 35 metres |
| Y | _____ metres |

[2]

- (b) Suggest why the amount of erosion at Happisburgh is different at X and Y.

[2]

[Total: 4]

Section A: 10 marks

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SECTION B: THE OPTIONS

QUESTION 3

Use **RESOURCES 3 and 4.**

Coastal erosion happens at Happisburgh. Stakeholders have different opinions on coastal protection.

Identify ONE stakeholder who is in favour of coastal protection and ONE who is against it. Explain their reasons using your own words.

Stakeholder IN FAVOUR: _____

Stakeholder's reasons: _____

Stakeholder AGAINST: _____

Stakeholder's reasons: _____

_____ **[6]**

[Total: 6]

QUESTION 4

Use RESOURCE 7 and your own knowledge.

- (a) Identify ONE place where the plans for coastal management change over time. What is the long term plan for this location?

Place: _____

Long term plan: _____

_____ [2]

(b) Suggest reasons why short term coastal management plans are not the same in all places in North Norfolk.

[illegible]

[Total: 8]

Section B: 14 marks

SECTION C: THE DECISION

QUESTION 5

Use RESOURCES 1, 5, 6, 7 and 8, plus your own knowledge and any ideas from other resources in the booklet.

People have tried to control coastal erosion for many hundreds of years, with varied success. The council has to make a sustainable decision about what to do at Happisburgh. They are considering THREE possible options:

OPTION 1

Build a new sea wall and use rip-rap and rock armour at the base of the cliff.

OPTION 2

Use beach replenishment and repair and maintain the existing wooden groynes and revetments.

OPTION 3

Use managed retreat of the coast and give people compensation for their losses.

TASKS

- (a) Choose ONE of the options on page 12 and give reasons to explain why you think this would be the best way to manage the coastline at Happisburgh.**
- (b) Suggest a possible disadvantage of your chosen option.**
- (c) Give a possible advantage of EACH of the other TWO options.**
- (d) Select ONE of your rejected options and suggest why it is NOT sustainable.**

(a) Chosen Option Number _____

Reasons

(b) A possible disadvantage of your chosen option.

[3]

(c) A possible advantage of each of the other TWO options.

Option Number _____

Reason _____

Option Number _____

Reason _____

[4]

(d) Reason why ONE of my rejected options is not sustainable.

Rejected Option Number _____

Reason _____

_____ **[3]**

[Total: 16]

Section C: 16 marks

TOTAL MARKS FOR PAPER: 40

ADDITIONAL PAGES:

If you use these lined pages to complete the answer(s) to any question(s), the question number(s) MUST be clearly shown.

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