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Tuesday 24 January 2012 – Afternoon

GCSE GEOGRAPHY B

B561/02 Sustainable Decision Making (SDM) (Higher Tier)

Candidates answer on the Question Paper.

OCR supplied materials:
None

Other materials required:
- Resource Booklet (B561/01/02/RB – previously supplied)

Duration: 1 hour

Candidate forename		Candidate surname	

Centre number						Candidate number				

INSTRUCTIONS TO CANDIDATES

- 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 pages 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 awarded marks in Questions 2, 3, 4 and 5 for the quality of written communication of your answer.
- Resources 1–7 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.

This paper has been pre modified for carrier language

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Turn over

SECTION A: THE BACKGROUND

Question 1

Use **Resource 1**.

(a) Complete the table by adding the lag time for Drainage Basin A and the peak discharge for Drainage Basin B.

Drainage Basin	Peak Discharge (m^3/sec)	Lag Time (hours)
A	14	.....
B	.....	4

[2]

(b) Briefly describe the shapes of the two hydrographs.

Drainage Basin A .....

.....

.....

Drainage Basin B .....

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

[Total: 4]

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Question 2

Use **Resource 1**.

Explain why the river in Drainage Basin A is more likely to flood than the river in Drainage Basin B.

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..... **[6]**

[Total: 6]

Section A: 10 marks

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SECTION B: THE OPTIONS

Question 3

Use **Resources 2b** and **3**.

Explain why the likely impact of flooding is different in Areas 1 and 2.

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..... **[6]**

[Total: 6]

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Question 4

Use both **Resources 4** and **5** and your own knowledge.

Explain why people use floodplains even though there is a risk of flooding.

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[Total: 8]

Section B: 14 marks

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SECTION C: THE DECISION

Question 5

Use **Resources 6** and **7** plus your own knowledge and any ideas from other resources in the booklet.

In January 2011 the city of Brisbane, Queensland, Australia suffered the worst flooding in over 20 years. New flood management methods are being considered to cope with any future flood problems in Brisbane. These methods will need to be sustainable.

The government is considering **four** possible options:

OPTION 1

Enforce zoning on the floodplain.

OPTION 2

Improve monitoring and warning systems.

OPTION 3

Develop a large scale scheme to improve flood management in the drainage basin.

OPTION 4

Insist that all new building projects on the floodplain have their own flood defences.

Task

Explain which option you think would be the most sustainable way for the government to manage flooding in Brisbane.

In your answer you should:

- State your chosen option
- Explain why you think your option is more sustainable than **each** of the other options
- Explain any disadvantages of your chosen option

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Chosen option: .....

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..... **[16]**

[Total: 16]

Section C: 16 marks

TOTAL MARKS FOR PAPER: 40

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Additional pages:

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

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