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Centre number						Candidate number				
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**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
GCSE**

B561/02

GEOGRAPHY B

Sustainable Decision Making (SDM) (Higher Tier)

TUESDAY 24 JANUARY 2012: Afternoon

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. 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.**

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.**

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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 _____

_____ [2]

[Total: 4]

[8]

[Total: 8]

Section B: 14 marks

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.

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