

Centre No.						Paper Reference					Surname	Initial(s)
Candidate No.						1	3	1	3	/	1	F

Paper Reference(s)

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Edexcel GCSE Geography B

Paper 1F: Decision-Making Exercise

Foundation Tier

Wednesday 4 June 2008 – Morning

Time: 1 hour 15 minutes

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature.
Check that you have the correct question paper.

Check that you have the correct question paper.
Answer ALL the questions. Write your answers in the spaces provided in this question paper.

**Answer ALL the questions. Write your answers in the spaces provided in this question paper.
Do not use pencil. Use blue or black ink.**

Do not use pencil. Use blue or black ink.
Some questions must be answered with a

Some questions must be answered with a cross in a box (☒). If you change your mind about an answer, put a line through the box.

If you change your mind about an answer, put a line through the box (~~☒~~) and then mark your new answer with a cross (☒).

Do not return the insert(s) with the question paper

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Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). There are 11 questions in this section and the total mark for this paper is 60.

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Advice to Candidates

You will be assessed on your ability to organise and present information, ideas, descriptions and arguments clearly and logically, including your use of grammar, punctuation and spelling.

You are reminded to make full use of the Resource Booklet throughout this examination.

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Turn over

Answer ALL the questions. Write your answers in the spaces provided.

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1. (a) Look at Photograph B in the Resource Booklet.
It is a satellite image of the New Orleans area in 2004.
Put a cross in the box next to the correct statements.

- (i) New Orleans is located **south** of Lake Pontchartrain.



- New Orleans is located **north** of Lake Pontchartrain.



(1)

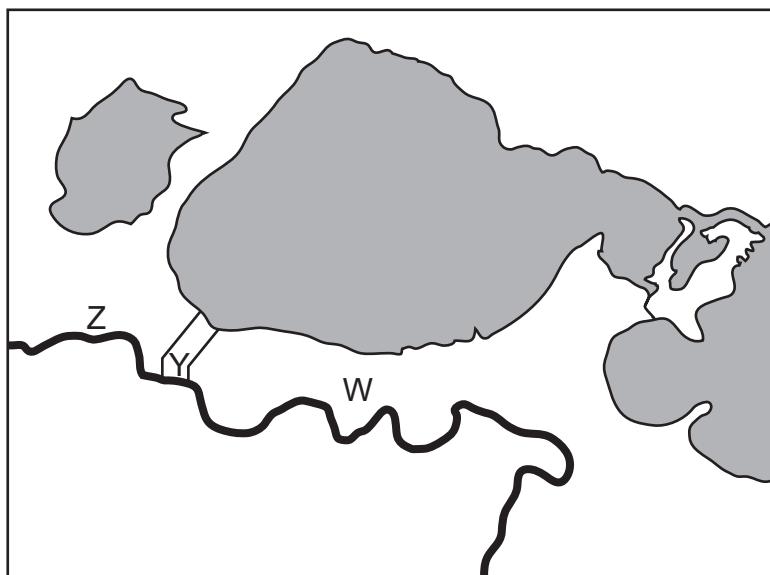
- (ii) The city is next to the **straight** channel of the Mississippi River.



- The city is next to the **meandering** channel of the Mississippi River.

(1)

- (b) Look at Photograph B again. Also look at the outline map of the same area below.



- (i) What type of land is found at W? Put a cross in the correct box.

woodland

farmland

urban land

marshland

(1)

- (ii) In which direction does the Mississippi River flow at point Z?

Put a cross in the correct box.

west to east

east to west

(1)



M 3 1 2 2 2 A 0 2 1 6

(iii) Feature Y is a **floodway**.

Explain the purpose of this floodway. Use evidence from the photograph.

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

(1)

Q1

(Total 5 marks)

2. (a) Look at Figure 1 in the Resource Booklet. It gives information about the Mississippi River.

- (i) Name the sea that the Mississippi River flows into.

.....

(1)

- (ii) Name one **tributary** of the Mississippi. Use evidence from the map.

.....

(1)

- (b) The terms **sediment** and **discharge** of a river have different meanings.
Look at the meanings A, B and C in the table below.

A	The speed of a river
B	The amount of water flowing in a river
C	The mud and sand transported by a river

Put a cross in the correct box for each sentence below.

The meaning of river **sediment** is A B C

The meaning of river **discharge** is A B C

(2)

- (c) The Mississippi River causes pollution of the sea.
Explain how.

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

(2)

Q2

(Total 6 marks)



<p>3. Look at Figure 3 in the Resource Booklet. It gives information about river management in the Mississippi drainage basin.</p> <p>(a) (i) The Mississippi River is dredged. Explain what dredged means.</p> <p>.....</p>	Leave blank (1)															
<p>(ii) The table below lists some techniques used to control river floods. Put a cross in the correct boxes to show whether they are hard or soft engineering techniques.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Hard</th> <th style="text-align: center;">Soft</th> </tr> </thead> <tbody> <tr> <td>Build levees</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Replant forests on slopes</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Straighten river channels</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>Build dams</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </tbody> </table>		Hard	Soft	Build levees	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Replant forests on slopes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Straighten river channels	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Build dams	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(2)
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Build dams	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
<p>(iii) Building levees can help to control river floods. Explain how.</p> <p>.....</p>	(2)	Q3 (Total 5 marks)														



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5

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4. Look at Figure 4 in the Resource Booklet.
It gives information about the Mississippi River Delta.

- (a) (i) Describe **two** types of wetland found in the Mississippi River Delta.

1

.....
2

(2)

- (ii) Coastal wetlands are a natural defence against hurricanes.
Explain how.

.....
.....

(1)

- (b) (i) What does **marine erosion** mean?

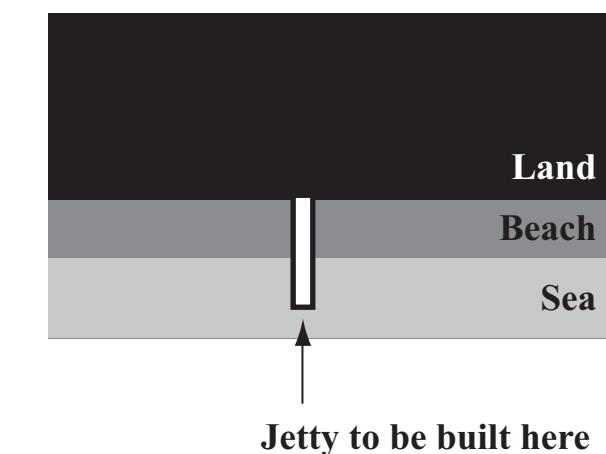
.....
.....

(2)



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- (ii) Stone jetties block longshore drift and this can increase erosion.
Look at the sketch map below.



Put a cross in the correct boxes in the sentences below.

The direction of longshore drift is from east to west.

When a jetty is built, the beach on the west side of it will lose sand.
gain

The land behind this western section of beach will now be more protected.
less

(2) Q4

(Total 7 marks)



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blank

5. Look at Figure 5 in the Resource Booklet. It gives information about New Orleans.

- (a) (i) French people built the first settlement.
What feature did they build it on?

.....

(1)

- (ii) Give one **advantage** of that site for a settlement.

.....

(1)

- (b) Look at the relief cross-section in Figure 5.
What is the height above sea level of levee **B**?

.....

(1)

- (c) New Orleans' levees and floodwalls were designed to protect it against Category 3 hurricanes.
What is meant by a **Category 3** hurricane?
Use data from **Figure 6** in your answer.

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

(2)

Q5

(Total 5 marks)



6. Look at Photograph D in the Resource Booklet. It is a satellite image showing Hurricane Katrina and sea surface temperatures on 27 August 2005.

Describe the **appearance** of Hurricane Katrina. Use evidence from Photograph D only.

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

Leave
blank

Q6

(Total 3 marks)

7. Look at Figure 6 in the Resource Booklet.
It shows the track of Katrina from 23 to 30 August 2005.

- (a) Describe the main **changes** in Katrina's **location** during that period.

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

(4)

- (b) Look at the key to Figure 6.
What is meant by a storm surge?

.....
.....

(1)

Q7

(Total 5 marks)



8. Look at Figure 7 in the Resource Booklet.
It gives information about Katrina hitting New Orleans.

Leave
blank

- (a) When Hurricane Katrina was coming:

- some people did not want to leave the city – they chose to stay
- other people could not leave – they stayed because they had to.

Choose **one** of these groups. Put a cross next to your choice.

People who did not want to leave People who could not leave

Suggest **two** reasons why this group of people did not leave.

1

2

(2)

- (b) Look at the statements below about the flooding in New Orleans.
Put a cross in the boxes for the **correct** statements in the table below.

Rain from Katrina was the main cause of flooding	<input type="checkbox"/>
Storm surges entered the city	<input type="checkbox"/>
The Mississippi River overflowed its banks	<input type="checkbox"/>
Some levees gave way and increased the flooding	<input type="checkbox"/>
85% of the city was flooded	<input type="checkbox"/>
All the land that flooded was below sea level	<input type="checkbox"/>
The worst floods were in parts of the city south of the river	<input type="checkbox"/>
Poorly designed floodwalls made the flooding worse	<input type="checkbox"/>

(3)

Q8

(Total 5 marks)



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9. Look at Figure 8 in the Resource Booklet.
It gives information about the effects of Katrina on New Orleans.

- (a) (i) A road bridge over Lake Pontchartrain collapsed.
What caused the bridge to collapse?

.....

.....

(1)

- (ii) The Superdome is 80 metres high. Its roof was badly damaged.
What caused this damage?

.....

.....

(1)

- (iii) Many people **drowned** in the flood.
The flooding also caused **other** risks to people's health.
Explain two of the other risks. Use evidence from Figure 8.

1

.....

2

.....

(2)

Q9

(Total 4 marks)



11

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10. Look at Photograph E in the Resource Booklet. It shows the 17th Street Canal in September 2005.

- (a) A type of flood defence is shown in the photograph.
What is the name of that type of flood defence?

.....

(1)

- (b) Explain what the helicopter crew are trying to do in the photograph.

.....

.....

.....

(2)

Q10

(Total 3 marks)



11. There were four options for New Orleans after Hurricane Katrina:

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blank

Option A – Rebuild the city and give Category 5 protection.

Option B – Rebuild the city and give Category 3 protection.

Option C – Partly rebuild the city and give Category 4 protection.

**Option D – Partly rebuild the city and give Category 3 protection.
Also build a new port by the Atchafalaya.**

Look at Figure 12 in the Resource Booklet. It gives more details about these options.

- (a) Which **one** of the four options (**A**, **B**, **C** or **D**) do you think would be best?

Chosen option

Explain why you have chosen this option.





(b) Choose **two** of the other options and explain the **disadvantages** of each of these options.

Options chosen and

Leave
blank



M 3 1 2 2 2 A 0 1 5 1 6

15

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