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| Other Names         |  |  |  |  |  |                  |  |  |  |  |
| Candidate Signature |  |  |  |  |  |                  |  |  |  |  |

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| For Examiner's Use  |      |
| Examiner's Initials |      |
| Question            | Mark |
| 1                   |      |
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| TOTAL               |      |



General Certificate of Secondary Education  
Higher Tier  
January 2011

# Geography (Specification B)

40351H

**H**

Unit 1 Managing Places in the 21st Century

Thursday 20 January 2011 9.00 am to 10.00 am

**For this paper you must have:**

- the insert (enclosed).
- You may use a calculator.

**Time allowed**

- 1 hour

**Instructions**

- Use black ink or black ball-point pen. You may use pencil for maps, diagrams and graphs.
- Fill in the boxes at the top of this page.
- Answer **one** question.
- Answer **either** Section A (Question 1) **or** Section B (Question 2).
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.
- Use case studies to support your answers where appropriate.

**Information**

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 50.
- You are reminded of the need for good English and clear presentation in your answers. Where applicable, questions should be answered in continuous prose. Quality of Written Communication will be assessed in all answers.



J A N 1 1 4 0 3 5 1 H 0 1

Answer **either** Section A (Question 1) **or** Section B (Question 2).

**Section A – The Coastal Environment**

Use case studies to support your answers where appropriate.

**Total for this question: 50 marks**

**1 (a)** Study **Figure 1** on the insert. **Figure 1** shows information about Dubai, a coastal area in the United Arab Emirates.

**1 (a) (i)** Describe the changes to visitor numbers to Dubai between 1990 and 2010.

Suggest reasons for the changes.

Use **Figure 1** to help you.

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**1 (a) (ii)** Explain how coastal areas provide opportunities for economic development.

Use **Figure 1** and your own knowledge.

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**Question 1 continues on the next page**

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1 (b) (i) In coastal areas explain how rocks are:

broken down by weathering; .....

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worn away by erosion. ....

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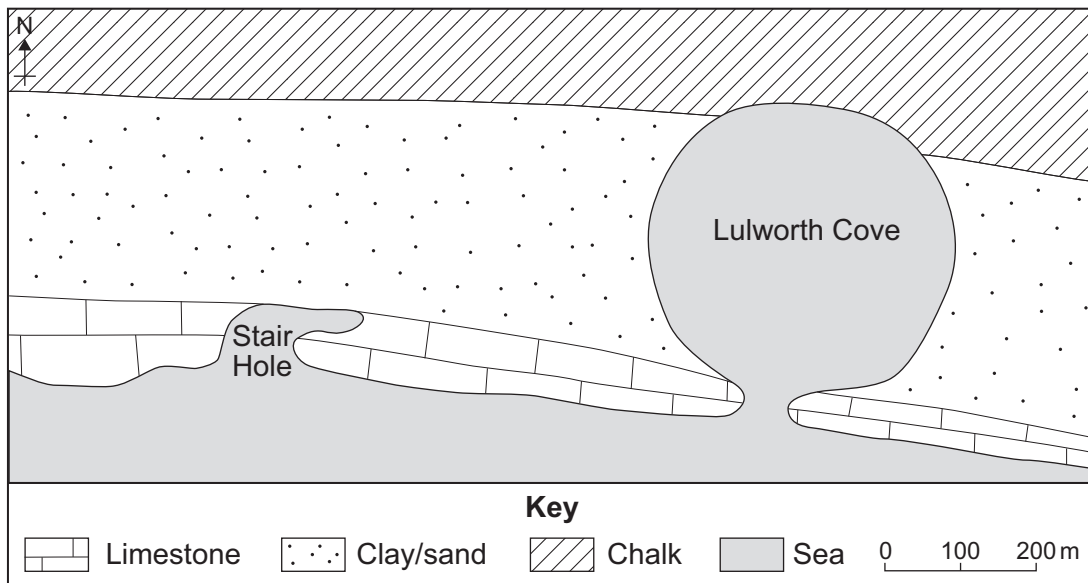
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1 (b) (ii) Study **Figure 2**. **Figure 2** shows a simplified map of part of the Dorset coast. Different types of rock are found in this area.

Figure 2



How might the coastline around Stair Hole change in the future?

Use **Figure 2** to help you.

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1 (c) Study Figure 3 and Figure 4.

Figure 3 and Figure 4 show processes affecting soft coastlines.

Figure 3

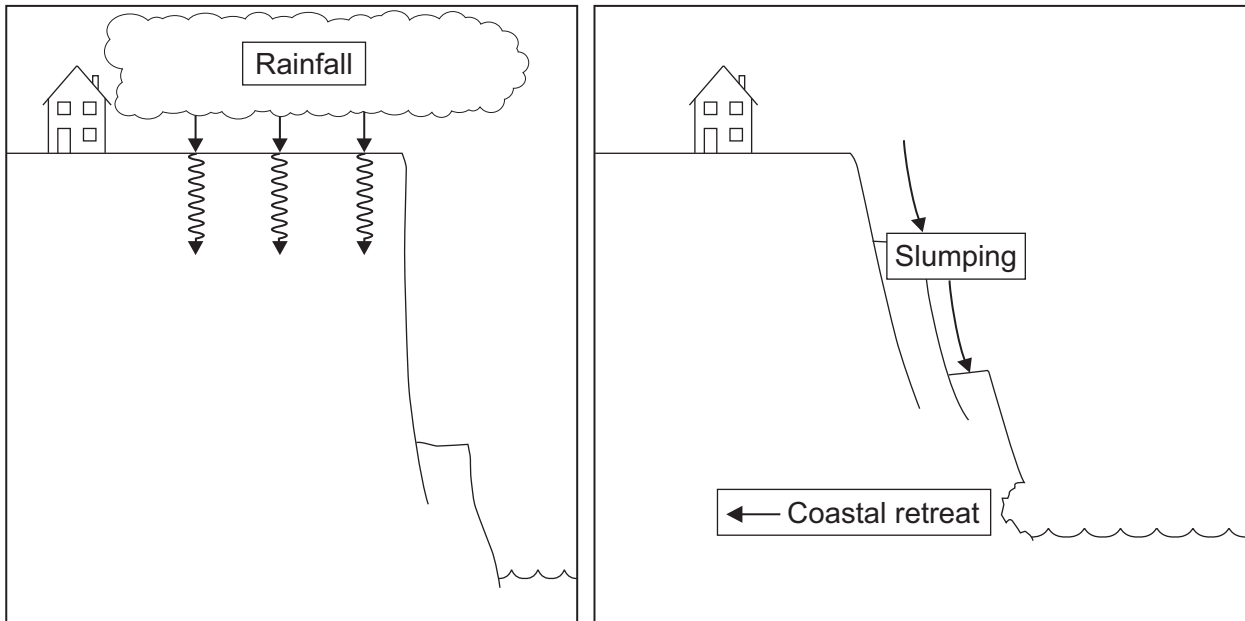


Figure 4



1 (c) (i) Explain why soft coastlines erode rapidly.

Use **Figure 3** and **Figure 4** and your own knowledge.

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1 (c) (ii) The engineering methods that have been used in the area shown in **Figure 4** have not been very successful.

Suggest how the cliffs in **Figure 4** might be protected more effectively from coastal erosion.

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**1 (d)** Study **Figure 5**, an Ordnance Survey map extract\* showing part of the coast in South Wales.

**1 (d) (i)** Name the features on the map marked at **A** and **B**.

Choose the correct features from the list below.

- bar**
- bay**
- headland**
- spit**

**A** .....

**B** .....

(2 marks)

**1 (d) (ii)** What is the length of the beach in Rhossili Bay, to the nearest km?

..... km

(1 mark)

**1 (d) (iii)** How does the sediment at Rhossili beach differ from the sediment at Port-Eynon beach?

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(1 mark)

\* The Ordnance Survey map extract has been removed due to third-party copyright restrictions.

Please refer to Landranger Map 159, Swansea and Gower.

**Question 1 continues on the next page**

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1 (d) (iv) Describe the physical features of the coastal area in grid square 5087.

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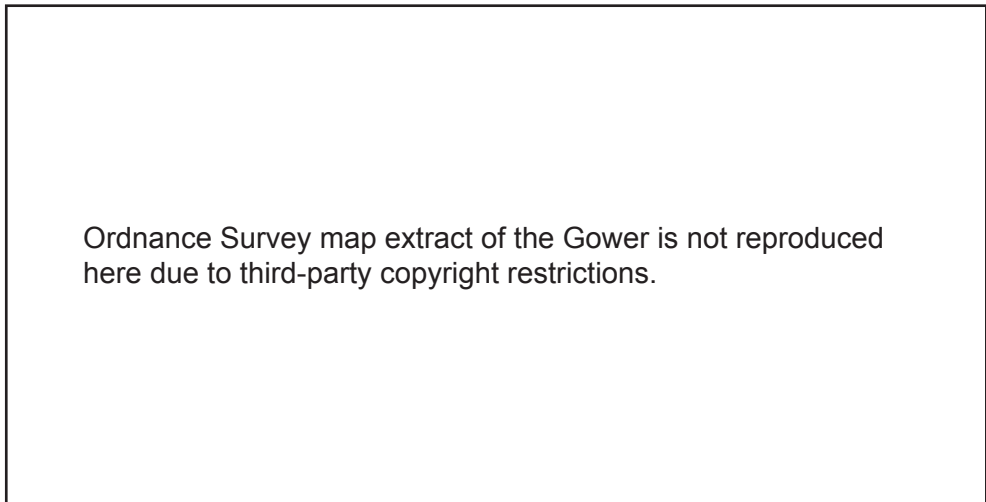
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1 (d) (v) The area shown on the grid below is part of **Figure 5** and is considered to be a fragile environment. Explain how environments such as this could be protected from human activities.

Use **Figure 5**, the Ordnance Survey map extract, and example(s) you have studied.



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**1 (e)** Explain how managed retreat can be used to reduce the threat of coastal flooding.

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**End of Section A**



Answer **either** Section A (Question 1) **or** Section B (Question 2).

**Section B – The Urban Environment**

Use case studies to support your answers where appropriate.

**Total for this question: 50 marks**

**2 (a)** Study **Figure 6**. **Figure 6** shows changes in the world's population (billions).

**Figure 6**

|                  | 1970 | 1980 | 1990 | 2000 | 2010<br>(estimated) |
|------------------|------|------|------|------|---------------------|
| Rural population | 2.4  | 2.8  | 3.0  | 3.2  | 3.2                 |
| Urban population | 1.4  | 1.8  | 2.6  | 3.0  | 3.6                 |

**2 (a) (i)** Use **Figure 6**. Describe how:

the world's rural population has changed;

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the world's urban population has changed.

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*(4 marks)*

**Question 2 continues on the next page**

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**2 (a) (ii)** Why are urban populations in less developed countries growing rapidly?

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**2 (a) (iii)** Describe the environmental problems caused by urban growth.

Use an example(s) you have studied.

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2 (b) Study **Figure 7**. **Figure 7** describes natural hazards in urban areas in less developed countries.

**Figure 7**

**EARTHQUAKE FLATTENS CAIRO SLUMS**

There was a powerful earthquake in the Egyptian city of Cairo yesterday. Hundreds of people died and thousands of people were injured. The modern, high-rise buildings next to the River Nile were not affected. However, many of the poorer slum areas were badly damaged. In these areas the poorly built, illegal homes collapsed, trapping people under rubble.

**LANDSLIDES DESTROY PARTS OF RIO DE JANEIRO**

After days of heavy rainfall, flooding and landslides have caused devastation in parts of Rio de Janeiro, one of the largest cities in Brazil. In one area a block of flats fell down when floodwater washed away the foundations.

Many poor people live in slums built on steep hillsides. The rainfall caused landslides on many of these slopes. Thousands of tons of mud and rocks flowed down hillsides, burying everything.

Over a hundred people were killed and thousands of people were made homeless because of the floods.

2 (b) (i) Suggest **two** reasons why large numbers of people are at risk from natural hazards in urban areas.

Use **Figure 7** to help you.

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**2 (b) (ii)** Describe the problems that natural hazards cause in urban areas.

Use **Figure 7** and your own knowledge.

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**2 (b) (iii)** Explain how the effects of natural hazards in urban areas can be reduced.

Use an example(s) you have studied.

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**2 (c)** Study **Figure 8** on the insert. **Figure 8** describes a redevelopment project in East London.

**2 (c) (i)** What is meant by:

commercial land use; .....

.....

pedestrianisation. ....

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*(2 marks)*

**2 (c) (ii)** Using **Figure 8** and your own knowledge, explain how urban redevelopment projects can improve:

socio-economic conditions; .....

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environmental conditions. ....

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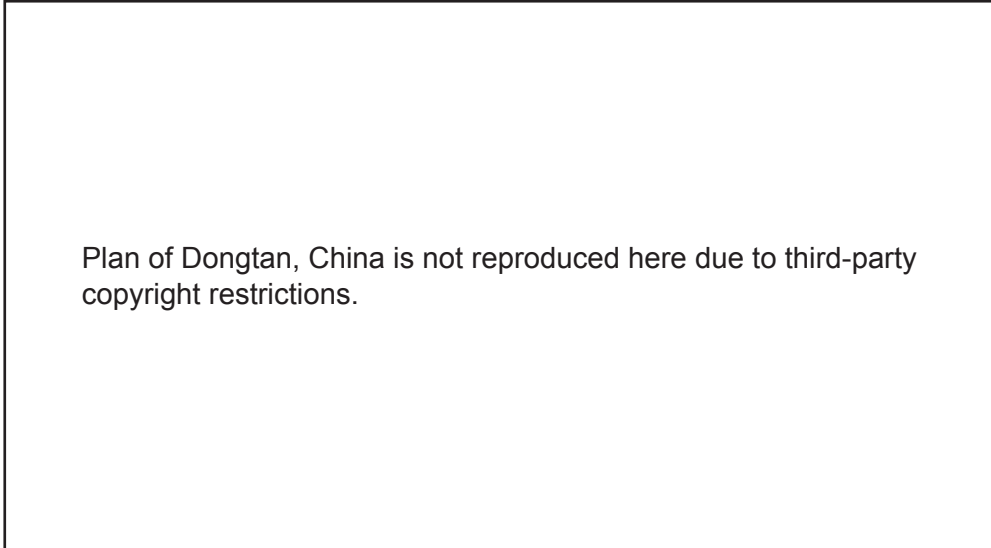
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**2 (d)** Study **Figure 9**. **Figure 9** shows a simplified plan for the proposed eco-city of Dongtan, in China.

**Figure 9**



**2 (d) (i)** What is the direction from the port to the waste water recycling facility?

.....

(1 mark)

**2 (d) (ii)** What is the distance, to the nearest km, from the port to the waste water recycling facility?

Circle the correct answer.

**15 km**

**20 km**

**25 km**

**30 km**

(1 mark)

**2 (d) (iii)** Explain how the features of Dongtan would make it a sustainable urban area.

Use **Figure 9** and your own knowledge.

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**END OF QUESTIONS**



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Question 2 Figure 8: *The Wharf*, www.wharf.co.uk  
Question 2 Figure 9: Geo Factsheet 218, Curriculum Press

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