

Centre Number						Candidate Number				
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For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
TOTAL	



General Certificate of Secondary Education
Foundation Tier
January 2011

Geography (Specification B)

40351F

F

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 F 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) In which part of the world is the United Arab Emirates?

Circle the correct answer.

Western Europe

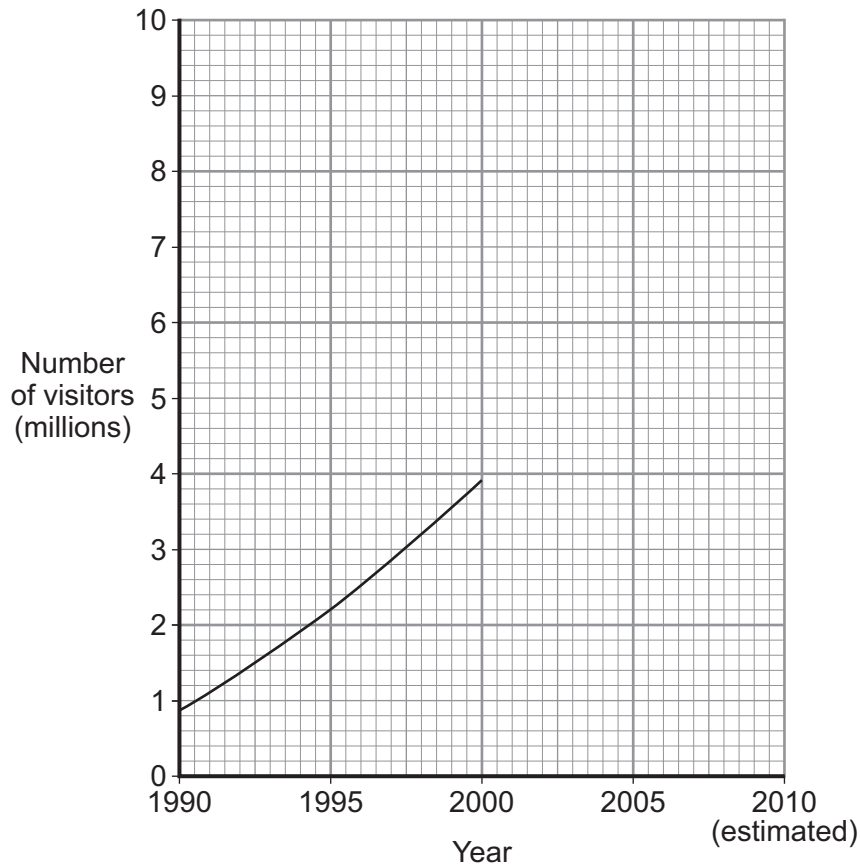
Middle East

South East Asia

(1 mark)

1 (a) (ii) Complete the graph below. The graph shows the number of visitors to Dubai.

Use the information from **Figure 1**.



(2 marks)



1 (a) (iii) Describe how the number of visitors to Dubai changed between 1990 and 2010.

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(2 marks)

1 (a) (iv) Give **two** physical factors that might attract tourists to Dubai.

Use **Figure 1**.

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(2 marks)

1 (a) (v) "A new international airport is being built." Suggest **two** reasons why.

Use **Figure 1**.

1

2

(2 marks)

Question 1 continues on the next page

Turn over ►



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

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

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(6 marks)

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1 (b) Complete the following paragraph.

Choose the **four** correct words from the list below.

attrition **erosion** **swash**
weathering **hydraulic** **corrosion**

Rainfall and changes in temperature make rocks weaker. This process is called and often affects coastal cliffs. The force of wind and waves in coastal areas wears away cliffs. This is called

As waves hit the cliff, air is forced into cracks, breaking the rock. This is called action. When waves break on a beach, pebbles move against other pebbles. This process is called and makes the pebbles smaller.

(4 marks)

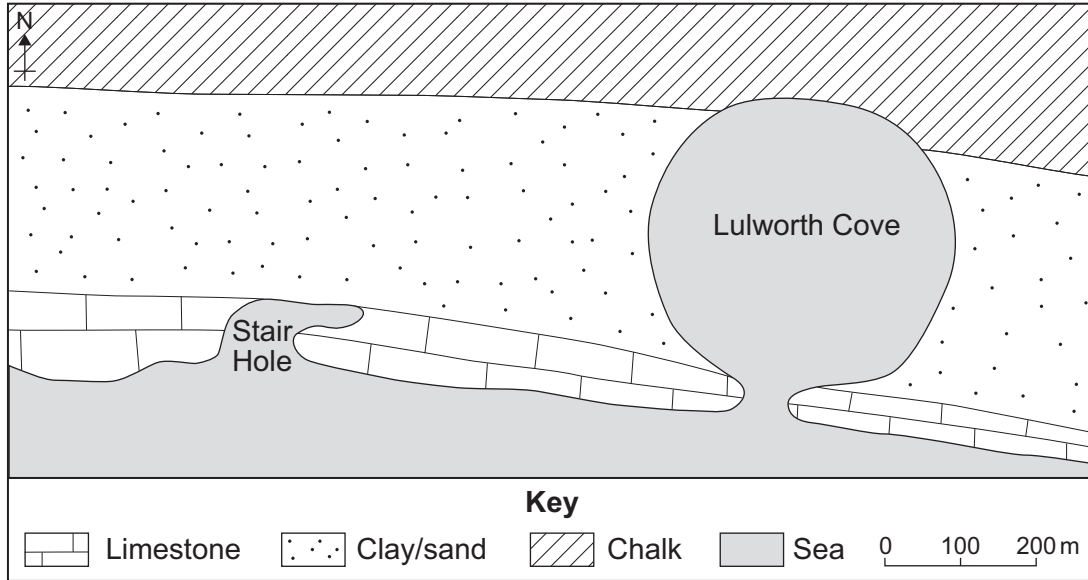
Question 1 continues on the next page

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1 (c) 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



1 (c) (i) Give **one** piece of evidence from **Figure 2** that suggests that clays and sands are the softest rocks.

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(1 mark)

1 (c) (ii) How might continued coastal erosion change the area around Stair Hole in **Figure 2**?

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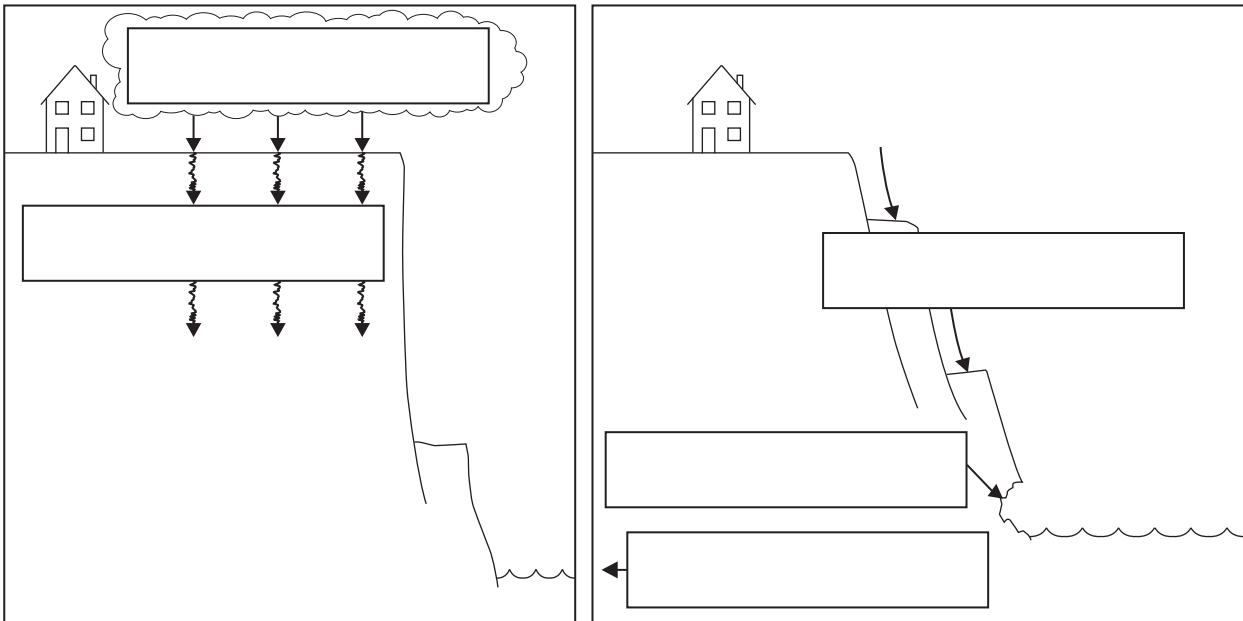
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(2 marks)



1 (d) Study **Figure 3**. **Figure 3** shows processes affecting soft coastlines.

Figure 3



1 (d) (i) Complete **Figure 3**.

Write the correct label in each box. Choose from the labels below.

coastal retreat

erosion

water soaks through

rainfall

slumping

(4 marks)

Question 1 continues on the next page

Turn over ►



1 (d) (ii) Study **Figure 4**. **Figure 4** shows an example of a soft coastline.

Figure 4



Give **two** pieces of evidence from **Figure 4** which suggest that this coastline is eroding.

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(2 marks)



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

1 (e) (i) Give the four-figure grid reference for the village of Port-Eynon.

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(1 mark)

1 (e) (ii) Give **two** ways in which height is shown on the Ordnance Survey map extract.

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(2 marks)

1 (e) (iii) 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 (e) (iv) What is the length of the beach in Rhossili Bay?

Circle the correct answer.

2 km **5 km** **8 km**

(1 mark)

1 (e) (v) 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.



1 (e) (vi) Suggest why the area on the map attracts many visitors.

Use evidence from **Figure 5**.

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(4 marks)

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1 (f) Explain how some fragile coastal environments are protected from human activities.

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(5 marks)

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End of Section A



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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

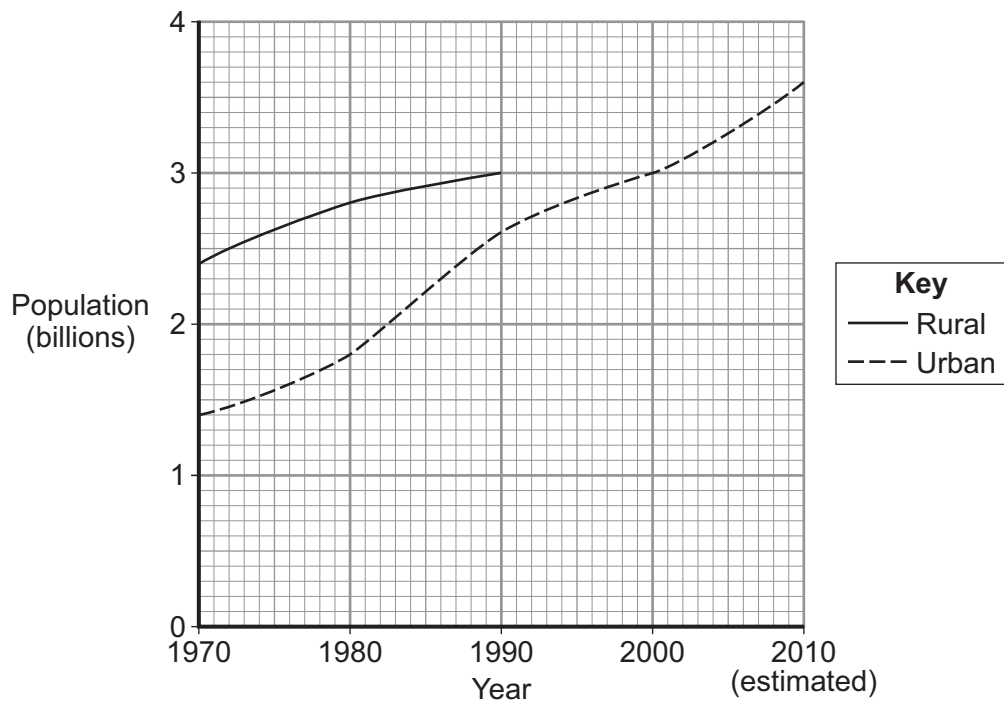
2 (a) Study **Figure 6**. **Figure 6** shows changes in the world's population (billions).

Figure 6

	1970	1980	1990	2000	2010 (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) Complete the graph below. The graph shows changes in the world's population.

Use the information from **Figure 6**.



(2 marks)



2 (a) (ii) 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)

2 (a) (iii) When did the world's urban population become greater than the world's rural population?

Circle the correct answer.

1980–1990

1990–2000

2000–2010

(1 mark)

2 (a) (iv) Explain how natural increase and migration lead to the growth of the urban population in less developed countries.

Natural increase

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Migration

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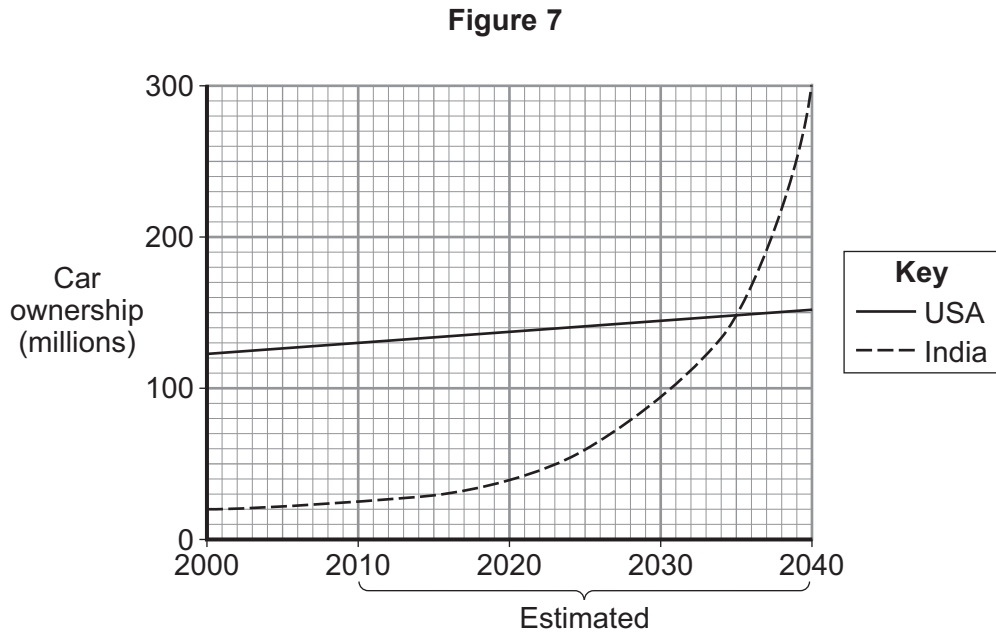
(4 marks)

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2 (b) Study **Figure 7**. **Figure 7** shows changing car ownership in India (less developed country) and in the USA (more developed country).



In 2005, car ownership in the USA was 1 car for every 2 people. In India it was 1 car for every 500 people. Most cars in India are found in urban areas.

2 (b) (i) Complete the following paragraph.

Choose the correct terms from the list below.

- | | | | | |
|-----|-------|---------|-----|----------|
| 100 | USA | greater | 2 | decrease |
| 300 | India | lower | 500 | increase |

In 2005 car ownership in India was much than in the United States of America. In India there was only 1 car for every people in 2005. Car ownership is expected to in both countries, but the rate of change will be greater in By 2040 there will probably be million cars in India, mostly in urban areas.

(5 marks)



2 (b) (ii) Describe the environmental problems caused by urban growth.

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

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(4 marks)

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2 (c) Study **Figure 8**. **Figure 8** describes natural hazards in urban areas in less developed countries.

Figure 8

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 (c) (i) Suggest **one** reason why large numbers of people are at risk from natural hazards in urban areas.

Use **Figure 8** to help you.

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(2 marks)

2 (c) (ii) Explain how the effects of natural hazards in urban areas can be reduced.

Use **Figure 8** and your own knowledge.

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(4 marks)

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2 (c) (iii) Explain how housing conditions for the urban poor in less developed countries can be improved.

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(4 marks)

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2 (d) Study **Figure 9** on the insert. **Figure 9** describes a redevelopment project in East London.

2 (d) (i) Complete the table below. Write the correct word next to each definition.

pedestrianisation commercial redevelopment residential

Word	Definition
	mainly housing
	rebuilding and improving
	separating people from traffic
	mainly business

(3 marks)

2 (d) (ii) Why was redevelopment needed in this part of East London?

Use **Figure 9**.

.....

(1 mark)

2 (d) (iii) How many homes does the project aim to build?

Use **Figure 9**.

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(1 mark)

2 (d) (iv) Suggest **two** reasons why good transport links to Central London are seen as an advantage for this area.

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(2 marks)



2 (d) (v) Explain how redevelopment projects improve urban environments.

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

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(4 marks)

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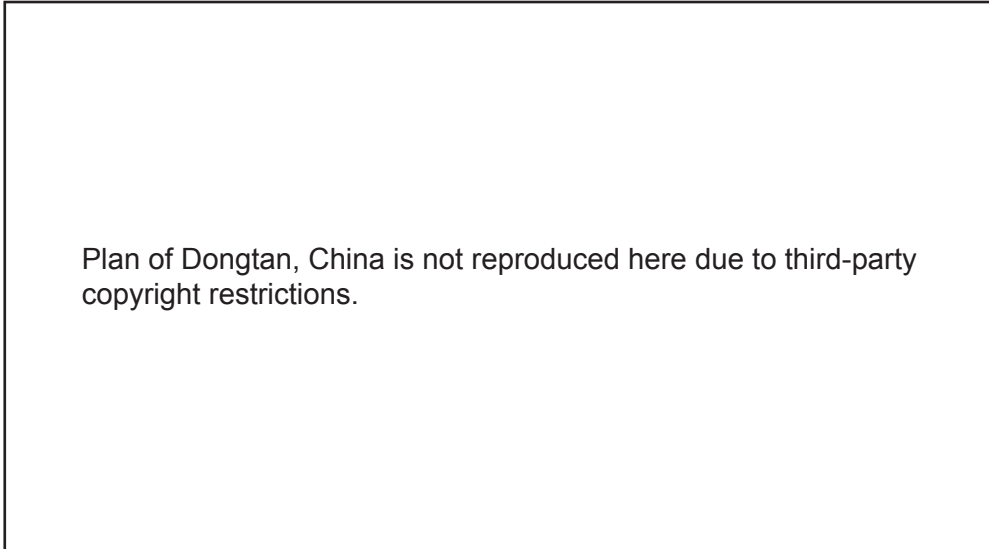
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2 (e) Study **Figure 10**. **Figure 10** shows a simplified plan for the proposed eco-city of Dongtan, in China.

Figure 10



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

.....

(1 mark)

2 (e) (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 (e) (iii) Give **one** piece of evidence from **Figure 10** which suggests that Dongtan is hoping to attract visitors.

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(1 mark)



2 (e) (iv) Explain how the features of Dongtan would make it a sustainable urban area.

Use **Figure 10** to help you.

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END OF QUESTIONS



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Question 1 Figure 1: Photo: © Getty Images
Question 1 Figure 4: Photo: Andrew Stacey
Question 2 Figure 9: *The Wharf*, www.wharf.co.uk
Question 2 Figure 10: Geo Factsheet 218, Curriculum Press

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