

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
June 2012

Geography (Specification B)

40351F

F

Unit 1 Managing Places in the 21st Century

Thursday 14 June 2012 9.00 am to 10.00 am

For this paper you must have:

- the insert (enclosed)
 - the Ordnance Survey map extract (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 **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 U N 1 2 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.

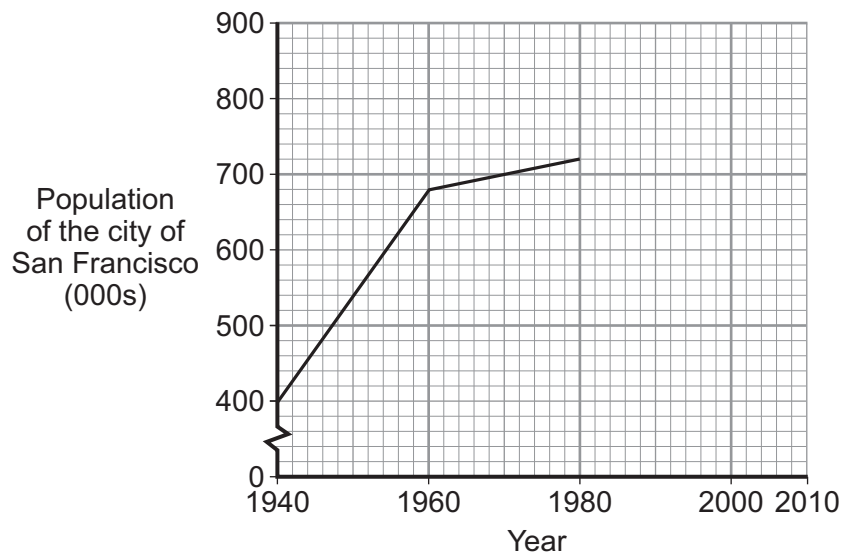
Total for this question: 50 marks

1 (a) Study **Figure 1** on the insert. **Figure 1** gives information about San Francisco, a coastal city in the United States of America (USA).

1 (a) (i) Name the ocean to the west of San Francisco.

.....
(1 mark)

1 (a) (ii) Complete the graph below.
Use the information from **Figure 1**.



(2 marks)



1 (a) (iii) Describe the main change to the population of the city of San Francisco between 1940 and 2010.

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(2 marks)

1 (a) (iv) Suggest reasons for the growth of population in coastal areas. Use **Figure 1** and your own knowledge.

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(5 marks)

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Question 1 continues on the next page

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1 (b) The following paragraph describes coastal processes.

Complete the paragraph.

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

attrition **corrasion** **cracks**
hydraulic **temperature** **weathering**

The action of change and rainfall can break cliffs down. This is called In some places, waves break directly against the cliff face. When this happens, action can widen in the cliff. Where waves break on a beach, pebbles rub against each other. This gradually wears the pebbles away.

(5 marks)

1 (c) Complete the table below.
Write the correct term next to each definition.

backwash **longshore drift** **swash**

Term	Definition
	sediment being moved up a beach
	sediment being moved down a beach
	sediment being moved along a beach

(2 marks)



1 (d) Study **Figure 2**. **Figure 2** is an Ordnance Survey map extract* showing part of the coast of Devon.

1 (d) (i) Give the four-figure grid reference for Dawlish railway station.

.....

(1 mark)

1 (d) (ii) Complete the sentences below.
Circle the correct answer in **each** set of brackets.

The distance from Langstone Rock to the marina in Exmouth is approximately

[1 km / 2 km / 3 km] .

The direction of the coastline from Dawlish to Langstone Rock is

[SW to NE / N to S / SE to NW] .

The **main** coastal process happening in the area shown on the map is

[erosion / deposition / slumping] .

(3 marks)

1 (d) (iii) Name a type of coastal defence shown on the map in grid square 9879.

.....

(1 mark)

Question 1 continues on the next page

* The Ordnance Survey map extract has been removed due to third-party copyright constraints

Please refer to Explorer Map 110, Torquay and Dawlish (eastings 95–00, northings 75–82).

Copies of this question paper can be purchased online from the AQA shop, and each question paper includes an Ordnance Survey map extract.

Turn over ►



1 (d) (iv) Dawlish Warren (9879) is an example of a coastal spit.

Explain how a spit is formed. You may use a diagram.

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(4 marks)

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1 (d) (v) The table below gives evidence to show that the area on the Ordnance Survey map extract is used for recreation and tourism.

Complete the table below.
One example has been done for you.

Grid reference	Evidence for recreation and tourism
972784	Camping and caravan site
993805	
982791	

(2 marks)



1 (d) (vi) Suggest how environmental conservation is taking place in the area shown on the Ordnance Survey map extract.

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(2 marks)

1 (d) (vii) Describe ways in which human activities may cause conflict in coastal environments. Use **Figure 2** and your own knowledge.

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(4 marks)

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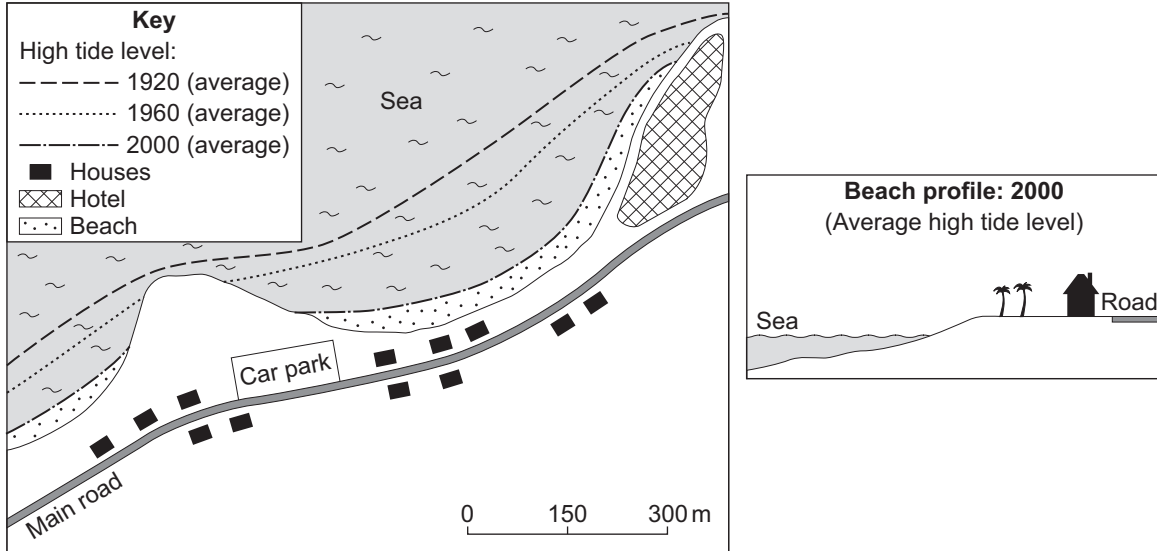
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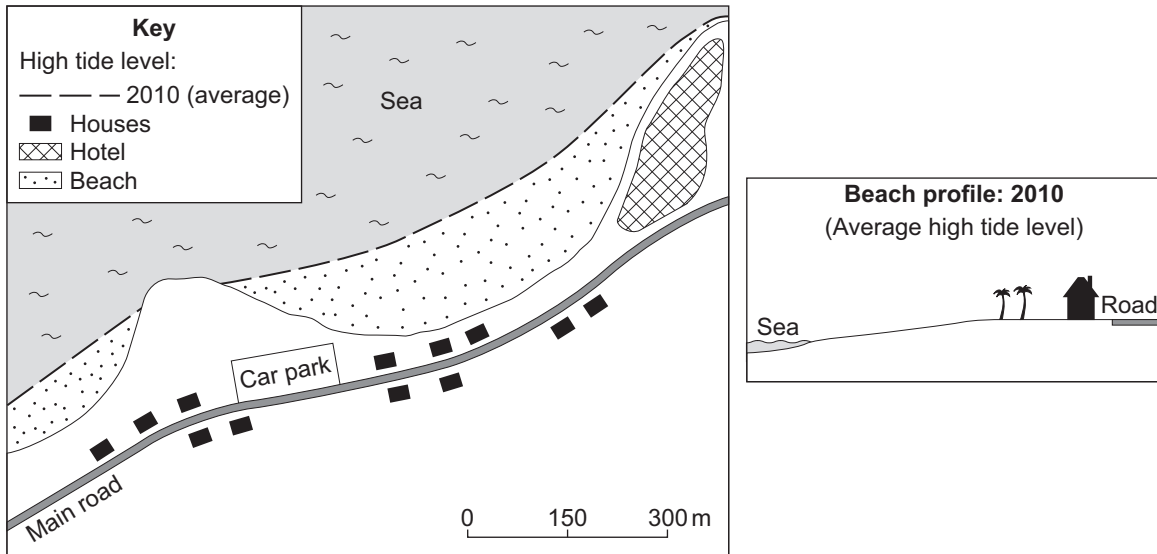
1 (e) Study Figure 3. Figure 3 shows a coastal area before and after a soft engineering coastal protection scheme was put in place in 2005.

Figure 3

A Before coastal protection



B After coastal protection



1 (e) (i) The soft engineering coastal protection scheme **shown in Figure 3** included beach nourishment and beach re-profiling.

What is meant by:

beach nourishment?
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.....

beach re-profiling?
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(4 marks)

1 (e) (ii) Give **two** differences in the beach profile between 2000 and 2010.

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(2 marks)

1 (e) (iii) A soft engineering protection scheme rather than a hard engineering protection scheme was used in the area shown in **Figure 3**. Suggest why.

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(4 marks)

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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 4** on the insert. **Figure 4** gives information about Nairobi, the capital city of Kenya, in Africa.

2 (a) (i) How many slum areas are there in Nairobi?

.....

(1 mark)

2 (a) (ii) Complete the table below.
Write the correct term next to each definition.

migration

natural increase

squatter settlement

social improvement schemes

Term	Definition
	building new schools and health centres
	more births than deaths in an area
	movement of people from one place to another

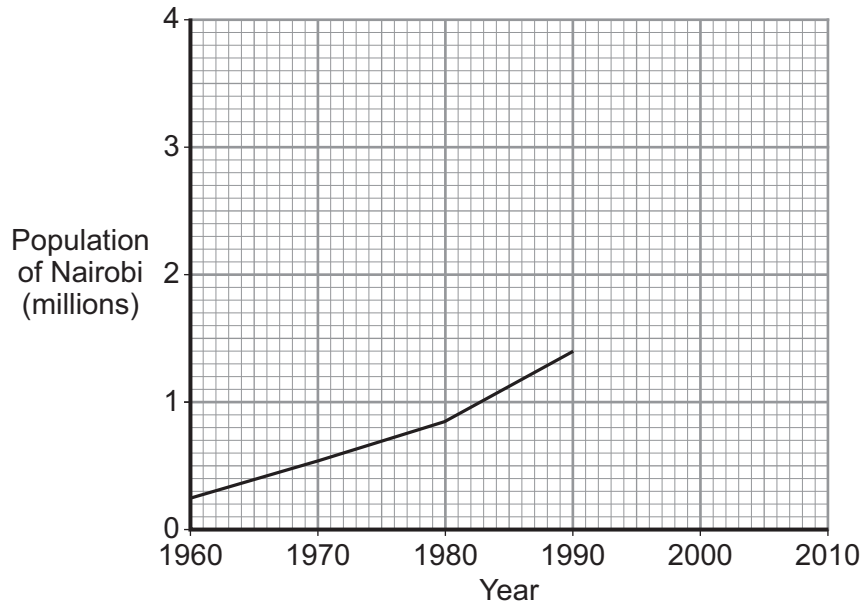
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2 (a) (iii) Complete the graph below.
Use the information from **Figure 4**.



(2 marks)

2 (a) (iv) In which ten-year period did the population of Nairobi increase the most?
Circle the correct answer.

1960–1970

1990–2000

2000–2010

(1 mark)

2 (a) (v) Suggest how the conditions described in **Figure 4** can lead to problems for the urban poor in less developed countries.

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(4 marks)



2 (b) Study **Figure 5**. **Figure 5** describes some of the pollution problems in Los Angeles, a city in the United States of America (USA).

Figure 5

Pollution problems in Los Angeles

Los Angeles is a sprawling city on the Pacific coast of the USA. On most days the main roads are choked with commuter traffic in the city centre and in the large industrial areas across the city. At certain times of the year, smoke and fumes get trapped under the warm, calm air and form photochemical smog. This smog looks like a grey-green haze over the city and can affect people and buildings.



Vehicle numbers in Los Angeles

Year	1980	1985	1990	1995	2000	2005	2010
Number of vehicles (millions)	3.8	4.3	5.1	5.9	6.5	7.5	7.4

2 (b) (i) What is the name of the ocean to the west of Los Angeles?

.....

(1 mark)

2 (b) (ii) In which part of the USA is Los Angeles?
Circle the correct answer.

south-east

south-west

north-east

north-west

(1 mark)



2 (b) (iii) Describe how the number of vehicles in Los Angeles changed between 1980 and 2010.

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(2 marks)

2 (b) (iv) Give **two** sources of air pollution in Los Angeles. Use **Figure 5**.

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(2 marks)

2 (b) (v) What problems does air pollution cause for:

people?

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the environment?

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(4 marks)

Question 2 continues on the next page

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2 (b) (vi) What methods are being used to reduce the number of car journeys in urban areas?

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(4 marks)

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2 (c) Study **Figure 6**. **Figure 6** gives information about four different areas of a city in the United Kingdom (UK).

Figure 6

Area	Unemployment rate (%)
A	19
B	8
C	38
D	28

Average unemployment rate:
for the whole city = 22.3%
for the UK = 13.4%

2 (c) (i) Using **Figure 6**, which area, **A**, **B**, **C**, or **D** has:

a rate of unemployment lower than the national average?

a rate of unemployment nearest to the average for the whole city?

(2 marks)

2 (c) (ii) Some parts of cities have high unemployment rates. Suggest why.

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(3 marks)

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2 (e) Study **Figure 7** on the insert. **Figure 7** shows how urban areas may look in the future.

2 (e) (i) Using **Figure 7**, give **one** example of:

renewable energy.

.....

urban 'greening'.

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(2 marks)

2 (e) (ii) What is meant by 'recycling'?

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(1 mark)

2 (e) (iii) Explain how the urban area shown in **Figure 7** is an example of sustainable urban planning.

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(4 marks)

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END OF QUESTIONS



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Figure 1, photo: © Thinkstock
Figure 4, photo: © Sean Sprague/SpraguePhoto.com
Figure 7: Raconteur Media

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