

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 2012

# Geography (Specification B)

40351F

**F**

Unit 1 Managing Places in the 21st Century

Friday 20 January 2012 1.30 pm to 2.30 pm

**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 A N 1 2 4 0 3 5 1 F 0 1

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

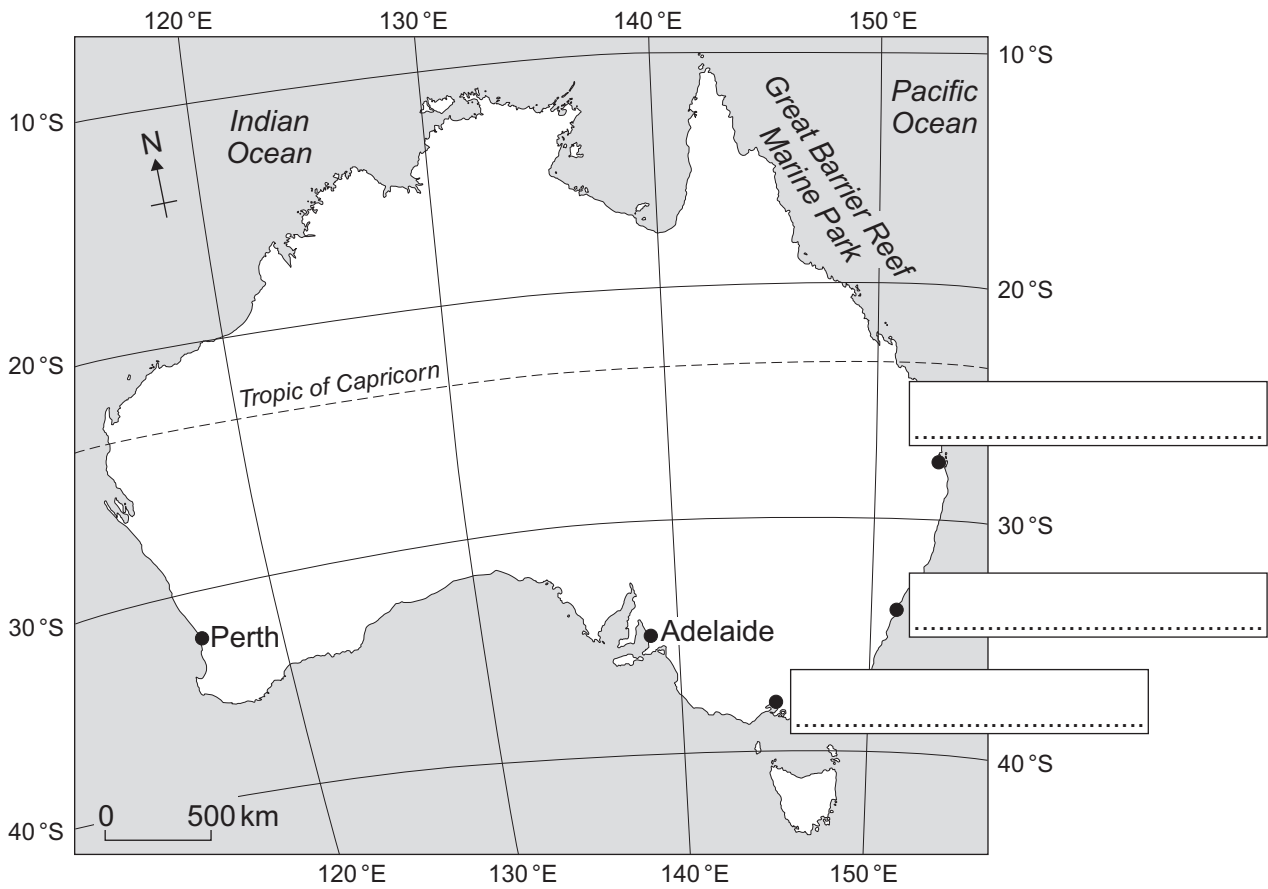
**Section A – The Coastal Environment**

Use case studies to support your answers where appropriate.

**Total for this question: 50 marks**

**1 (a)** Study **Figure 1**. **Figure 1** shows the locations of five large cities in Australia.

**Figure 1**



**1 (a) (i)** Name the ocean to the north-west of Australia.

.....  
(1 mark)

**1 (a) (ii)** Use the information below to complete the labels on **Figure 1**.

City	Latitude (approx)	Longitude (approx)
Brisbane	27°S	153°E
Melbourne	38°S	145°E
Sydney	34°S	151°E

(2 marks)



**1 (a) (iii)** Use **Figure 1** to complete the following paragraph.

Choose the **three** correct terms from the list below.

- |                     |              |                 |
|---------------------|--------------|-----------------|
| <b>inland</b>       | <b>south</b> | <b>Adelaide</b> |
| <b>on the coast</b> | <b>north</b> | <b>Perth</b>    |

The five large cities shown on **Figure 1** are all found  
 .....  
 All of the cities are ..... of the Tropic of Capricorn.  
 Only ..... is in the south-west of the country.

(3 marks)

**1 (b)** Describe the economic activities that are found in coastal areas.  
Use an example(s) you have studied.

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**1 (c)** Study **Figure 2** on the insert. **Figure 2** gives information about the Great Barrier Reef Marine Park (GBRMP) in Australia.

**1 (c) (i)** What is the area of the GBRMP?

.....  
(1 mark)

**1 (c) (ii)** What is the approximate length of the GBRMP?  
Circle the correct answer.

**1000 km**

**1700 km**

**3000 km**

(1 mark)

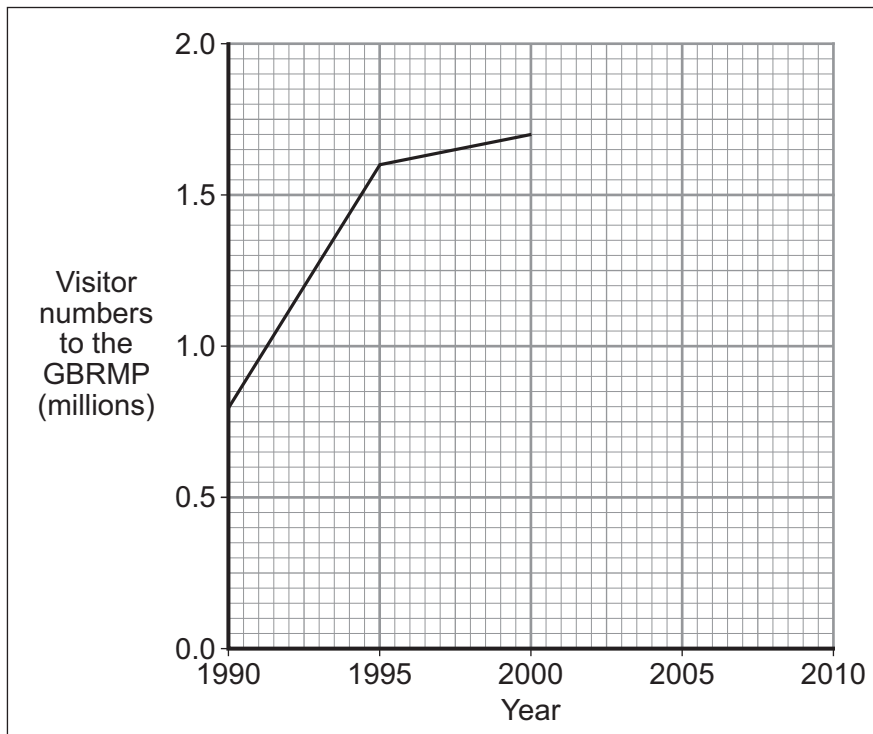
**1 (c) (iii)** Complete the table below.  
Write the correct term next to each definition.

<b>Conservation</b>	<b>Economic development</b>	<b>Ecosystem</b>
<b>Term</b>	<b>Definition</b>	
	A group of plants and animals in an area	
	The protection of natural environments	

(2 marks)



**1 (c) (iv)** Complete the graph. Use information from **Figure 2** on the insert.



(2 marks)

**1 (c) (v)** Describe how the number of visitors to the GBRMP changed between 1990 and 2010.

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(2 marks)

**Question 1 continues on the next page**

**Turn over ►**



1 (c) (vi) Sustainable management of coastal zones is a challenge. Explain why.  
Use **Figure 2** and your own knowledge.

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- 1 (d) A student was investigating coastal processes. While standing on a beach in front of a cliff she made notes describing the following processes.

- A** Waves were forcing their way into cracks in the cliff.  
**B** As waves moved up the beach, pebbles were rubbing against each other.  
**C** Waves were throwing sand and pebbles at the face of the cliff.

- 1 (d) (i) Complete the following sentence.  
Circle the correct answer.

The three processes the student described are all examples of

[ **weathering / erosion / slumping** ].

(1 mark)

- 1 (d) (ii) Which of the three processes the student described (**A, B or C**) is an example of each of the following?  
Put the correct letter (**A, B, C**) next to each term.

Abrasion	
Attrition	
Hydraulic action	

(2 marks)

- 1 (e) (i) Study **Figure 3** on the insert. **Figure 3** is a photograph of a coastline.

Identify the features labelled on **Figure 3** from the following list.

**Beach      Wave cut platform      Cave      Arch      Stack**

<b>A</b>	
<b>B</b>	
<b>C</b>	

(3 marks)

- 1 (e) (ii) Suggest how rock type helps to create the features shown on **Figure 3**.

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(2 marks)

**Question 1 continues on the next page**

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1 (f) Suggest reasons why slumping happens on 'soft' coastlines.

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(4 marks)

Extra space .....

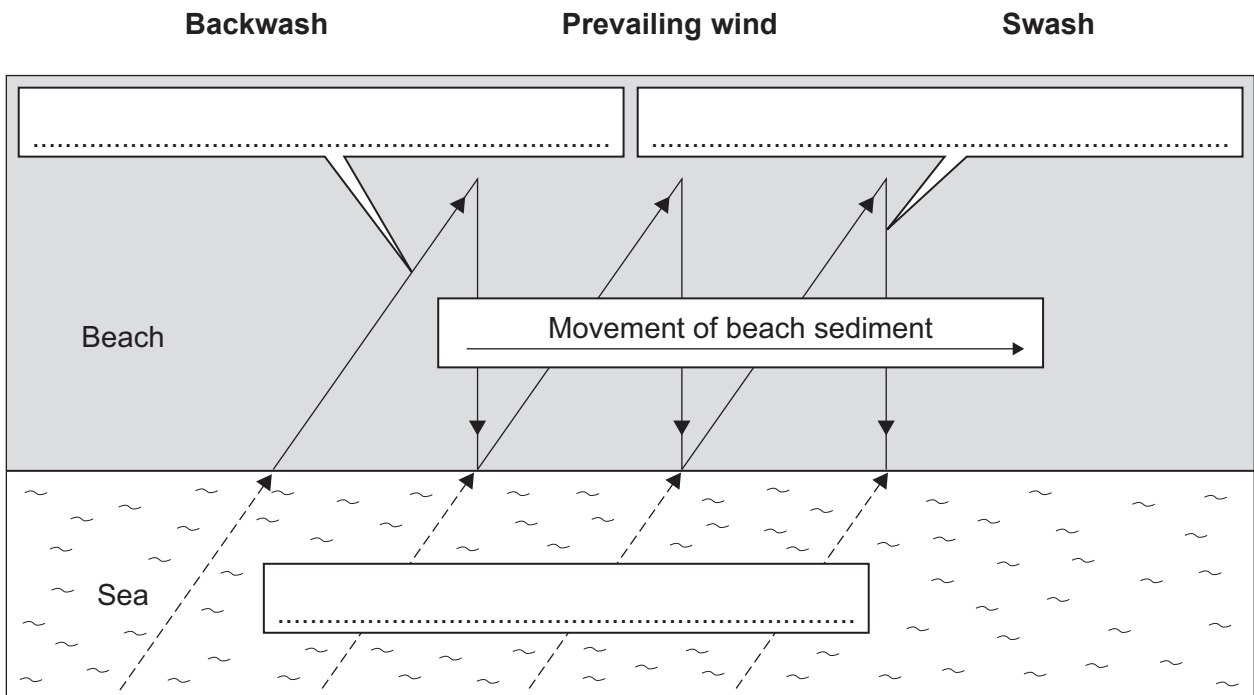
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1 (g) (i) The following diagram shows how beach sediment is moved along a coast.

Complete the diagram.  
Use the following terms.



(2 marks)





1 (g) (ii) What is the name of the process which moves beach sediment along the coast?

.....  
(1 mark)

1 (g) (iii) Which **two** of the following features are formed by coastal deposition?  
Tick the correct boxes.

- Arch
- Bar
- Headland
- Spit

(2 marks)

1 (h) (i) Give **two** reasons why some coastal areas are protected from the effects of the sea.

- 1 .....
- .....
- 2 .....
- .....

(2 marks)

**Question 1 continues on the next page**

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**1 (h) (ii)** Explain how hard engineering methods are used to protect coastal areas from the effects of the sea.  
Use examples you have studied.

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**End of Section A**



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ANSWER IN THE SPACES PROVIDED**

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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**. **Figure 4** shows the changing percentage of urban population for a number of countries.

**Figure 4**

**Urban population (%)**

	<b>1975</b>	<b>2005</b>	<b>2015 (estimated)</b>	
<b>Australia</b>	86	88	90	<b>More developed countries</b>
<b>USA</b>	74	81	84	
<b>UK</b>	83	90	91	
<b>France</b>	73	77	79	
<b>Nigeria</b>	24	48	60	<b>Less developed countries</b>
<b>China</b>	17	40	49	
<b>India</b>	21	29	32	
<b>South Africa</b>	48	59	64	

- 2 (a) (i)** In which country is the percentage of urban population estimated to increase the most between 2005 and 2015?  
Use the information in **Figure 4**.

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(1 mark)

- 2 (a) (ii)** Which **one** of the following statements is true?

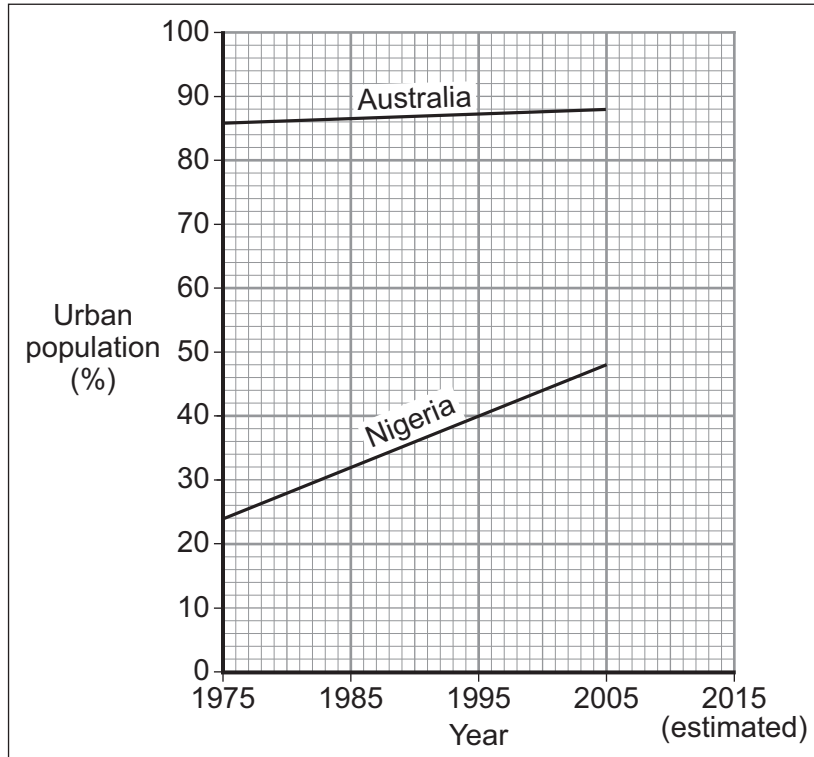
Use **Figure 4**. Tick the correct box.

The percentage of urban population is higher in less developed countries than in more developed countries.	<input type="checkbox"/>
The percentage of urban population in more developed countries is estimated to fall between 2005 and 2015.	<input type="checkbox"/>
The percentage of urban population is increasing faster in less developed countries than it is in more developed countries.	<input type="checkbox"/>

(1 mark)



2 (a) (iii) Complete the following graph for Australia and Nigeria. Use information from **Figure 4**.



(2 marks)

2 (a) (iv) Suggest **one** reason why the estimated increase in urban population in Australia is small.

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(1 mark)

2 (a) (v) In less developed countries, many people are moving from rural areas to urban areas. Suggest **two** reasons for this.

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(4 marks)

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2 (b) Study **Figure 5** on the insert. **Figure 5** gives information about an earthquake in China.

2 (b) (i) Using **Figure 5**, in which direction from the epicentre of the earthquake was the greatest spread of extreme shaking?  
Circle the correct answer.

north-east

north-west

south-west

(1 mark)

2 (b) (ii) Complete the following paragraph.  
Use **Figure 5** on the insert.

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

70 000

hundreds

Shanghai

70 km

150 000

thousands

Hong Kong

110 km

200 000

millions

Beijing

150 km

The Sichuan earthquake killed ..... people and made ..... of people homeless. The earthquake was so powerful that shaking was felt 1500 km away in ..... Extreme shaking was felt in Beichuan City, ..... from the epicentre.

(4 marks)

2 (b) (iii) Give **two** other natural hazards that were caused by the Sichuan earthquake.

1 .....

2 .....

(2 marks)

2 (b) (iv) Suggest **one** problem for the urban population caused by the earthquake damage to roads and railways.

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(2 marks)



**2 (b) (v)** Explain how the damaging effects of natural hazards can be reduced in urban areas. Use an example of a natural hazard you have studied.

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**2 (c)** Study **Figure 6**. **Figure 6** is an Ordnance Survey map extract showing part of the city of Glasgow.

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

Please refer to Explorer Map 342, Glasgow (eastings 52–60, northings 64–67).

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

**2 (c) (i)** Give the four-figure grid reference for the Scottish Exhibition and Conference Centre on the north bank of the River Clyde.

.....

(1 mark)

**2 (c) (ii)** What is the straight line distance, to the nearest km, from Glasgow Central Station (5865) to the eastern edge of Elder Park (5465)? Circle the correct answer.

- 4 km**
**5 km**
**6 km**
**7 km**

(1 mark)

**2 (c) (iii)** Identify the land use at the following grid references.

Write your answer in the table below. One has been done for you.

Grid reference	Land use
536657	Hospital
537663	
553653	
542653	

(3 marks)

**2 (c) (iv)** Using the Ordnance Survey map extract, suggest how the following transport developments could reduce traffic congestion in Glasgow city centre:

- an express bus service on the A814 (north bank of the River Clyde) to the city centre

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(2 marks)





- extra road bridges across the River Clyde.

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(2 marks)

**Question 2 continues on the next page**

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**2 (d)** Study **Figure 7**. **Figure 7** describes part of the Govan Action Plan, a project to improve conditions in the Govan area of Glasgow. This area is shown on the Ordnance Survey map extract.

**Figure 7**

The **Govan Action Plan** is part of the River Clyde Waterfront Urban Redevelopment Project.

The **Govan Action Plan** will include:

- the development of two new hospitals which will serve the whole of Glasgow
- 500 new homes and improvements to run-down housing areas
- restoration of historical buildings and the development of a riverside museum
- improved shopping and recreation facilities
- new pedestrian and cycle routes
- the clearing of derelict industrial areas and the development of green space.

**2 (d) (i)** Give **two** reasons why Govan needed an urban redevelopment project. Use **Figure 7**.

1 .....

2 .....

*(2 marks)*

**2 (d) (ii)** Suggest how the Govan Action Plan will improve the local environment. Use the Ordnance Survey map extract and **Figure 7**.

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*(4 marks)*



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**2 (e)** Explain how urban redevelopment projects can improve socio-economic conditions. Use an example(s) you have studied.

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**2 (f)** Describe the sustainable features of eco-settlements.  
Use an example(s) you have studied.

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**END OF QUESTIONS**

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