Centre Number						Candidate Number				
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Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
TOTAL	

General Certificate of Secondary Education
Foundation Tier
June 2010

Geography (Specification B)

40351F

F

Paper 1 Managing Places in the 21st century

Monday 14 June 2010 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.

Section A – The Coastal Environment

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

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 coastal development in Bahia, Brazil.

1 (a) (i) In which part of Brazil is the state of Bahia?

Circle the correct answer.

north **south** **east** **west**

(1 mark)

1 (a) (ii) Name the ocean that borders Brazil.

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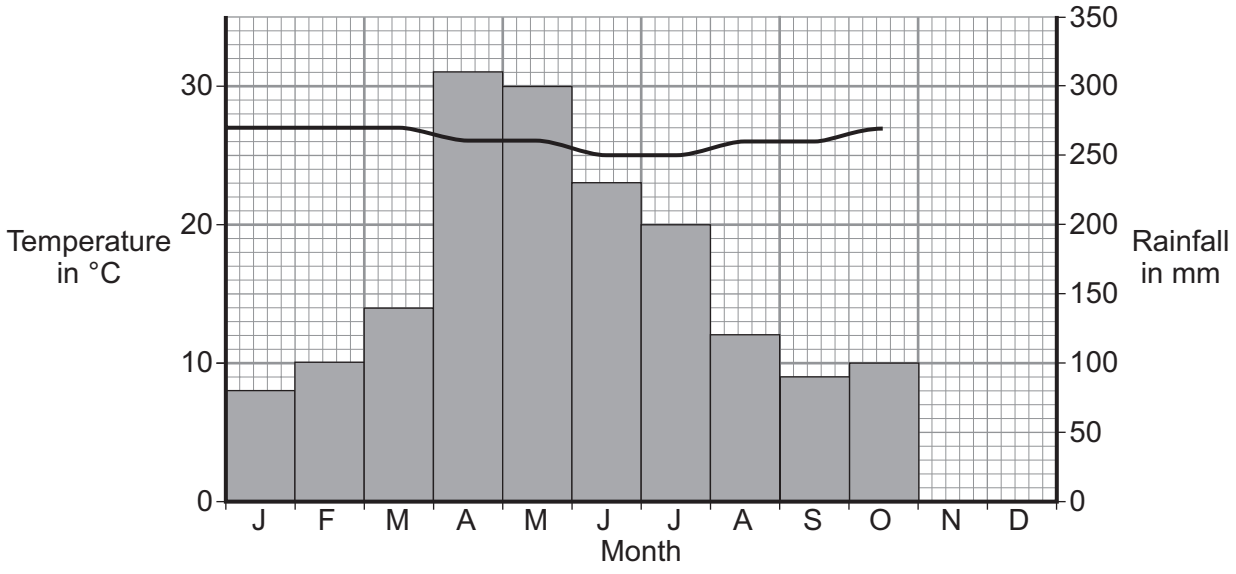
(1 mark)

1 (a) (iii) Complete the climate graph below.

Add the temperature and rainfall data for November and December from **Figure 1**.

Salvador – climate



(3 marks)

1 (a) (iv) Describe the annual temperature pattern of Salvador.

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(2 marks)

1 (a) (v) Give **two** natural characteristics of the Bahia coast, other than climate, that will attract tourists.

Use **Figure 1**.

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(2 marks)

Question 1 continues on the next page

1 (a) (vi) Explain how the development of coastal tourism in areas such as Bahia might improve living conditions for local people.

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

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1 (b) Explain how the development of coastal areas can damage local environments.

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(6 marks)

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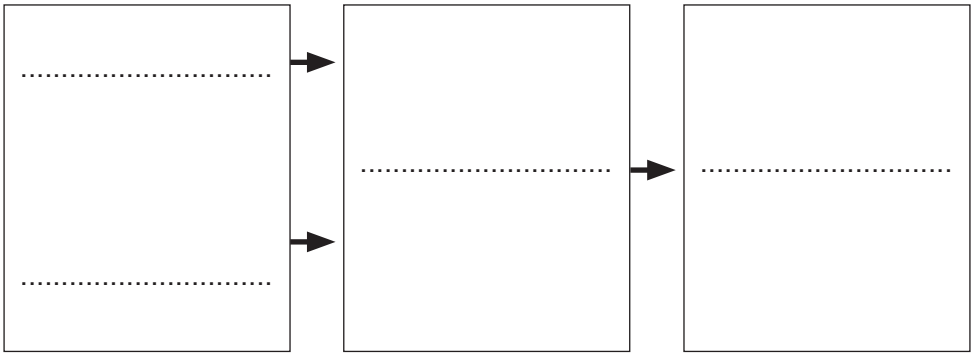
Question 1 continues on the next page

1 (c) (i) Complete the diagram below to show how natural coastal systems work.

Use these terms:

deposition **erosion** **transportation** **weathering**



(3 marks)

1 (c) (ii) The following statements describe different types of coastal erosion.

A pebbles rubbing against each other as waves break

B breaking waves throwing pebbles against a cliff

C breaking waves forcing water and air into cracks on a cliff face

Complete the table below. Write the correct letter in each box.

	Letter
Hydraulic action	
Attrition	

(2 marks)

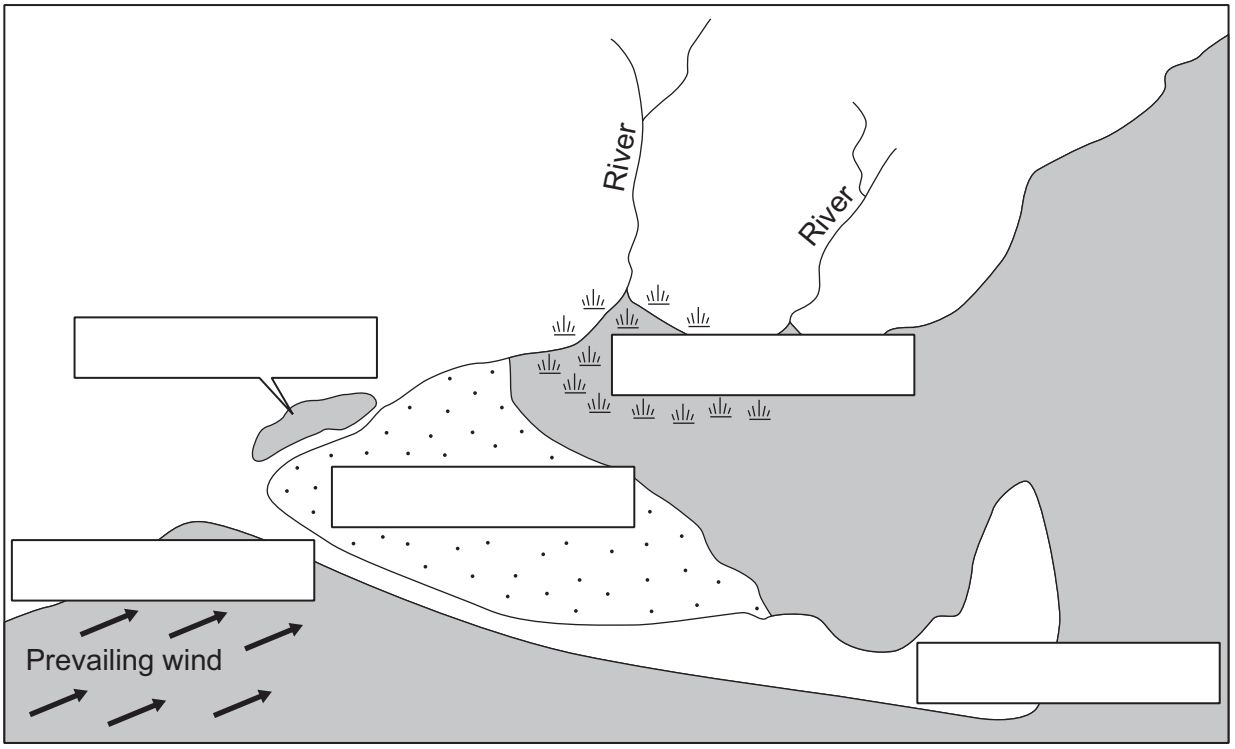
1 (c) (iii) Study **Figure 2**. **Figure 2** shows a coastal spit.

Complete the diagram below. Write the correct term in each box.

mudflats **neck of spit** **recurved end**

salt marsh **saltwater lake**

Figure 2



(4 marks)

Question 1 continues on the next page

1 (c) (iv) Explain how a coastal spit is formed.

You may use a diagram to support your answer.

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1 (d) (i) Complete the table below.

Write the correct term next to each definition.

soft engineering **longshore drift** **hard engineering**

Term	Definition
	building concrete barriers between the land and the sea
	adding sand to the beach in order to protect the coast

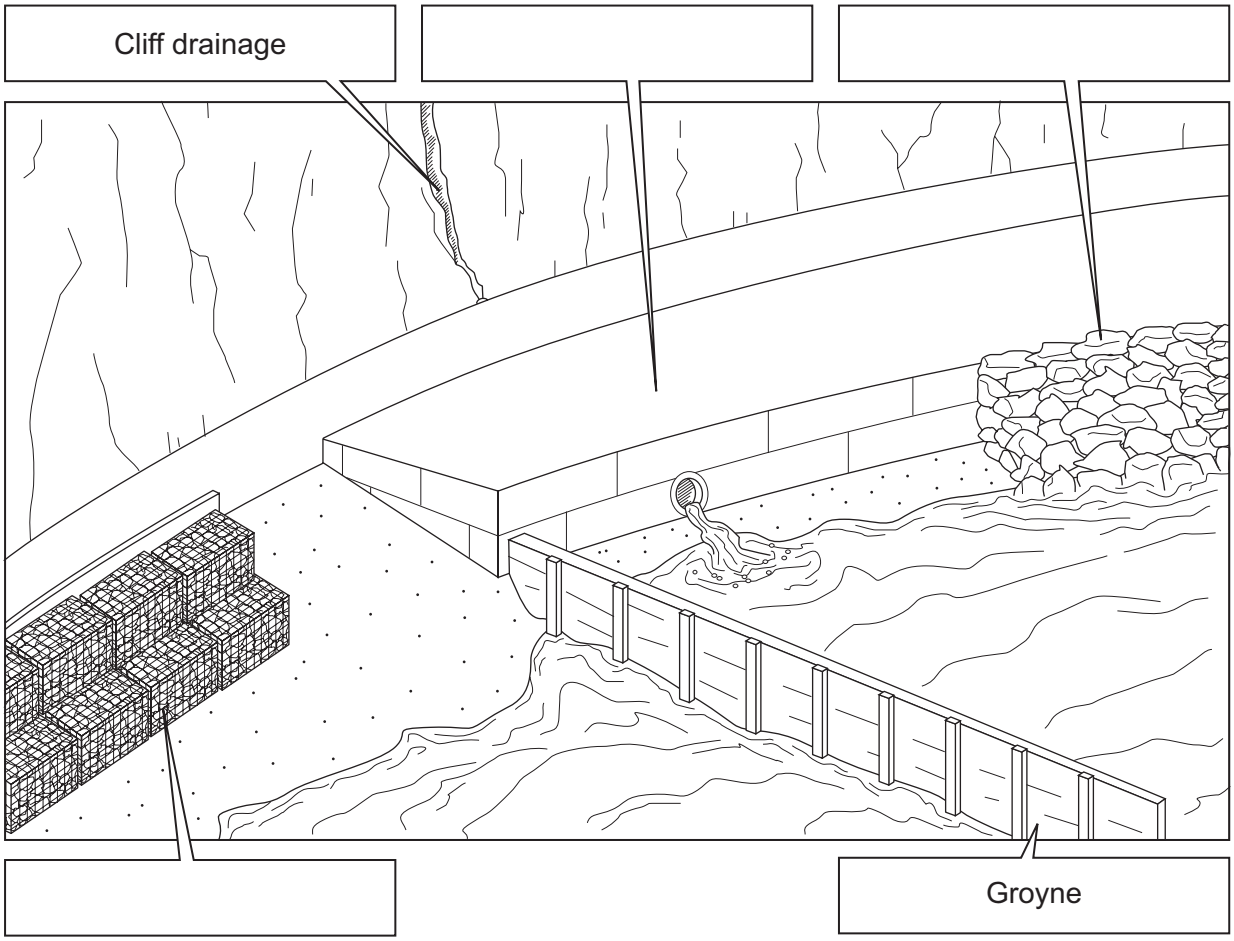
(2 marks)

1 (d) (ii) Study **Figure 3**. **Figure 3** shows a number of coastal engineering methods.

Complete the diagram below. Write the correct term in each box.

gabions **rock armour** **sea wall** **tetrapods**

Figure 3



(3 marks)

Question 1 continues on the next page

1 (d) (iii) Explain how the following help to protect coastlines.

cliff drainage .....

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groynes .....

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(4 marks)

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1 (e) Study **Figure 4** on the insert. **Figure 4** shows an example of managed retreat in a coastal area.

1 (e) (i) Explain how the method of managed retreat works.

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

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1 (e) (ii) Suggest **one** environmental advantage of managed retreat.

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(2 marks)

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End of Section A

Section B – The Urban Environment

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

Use case studies to support your answers where appropriate.

Total for this question: 50 marks

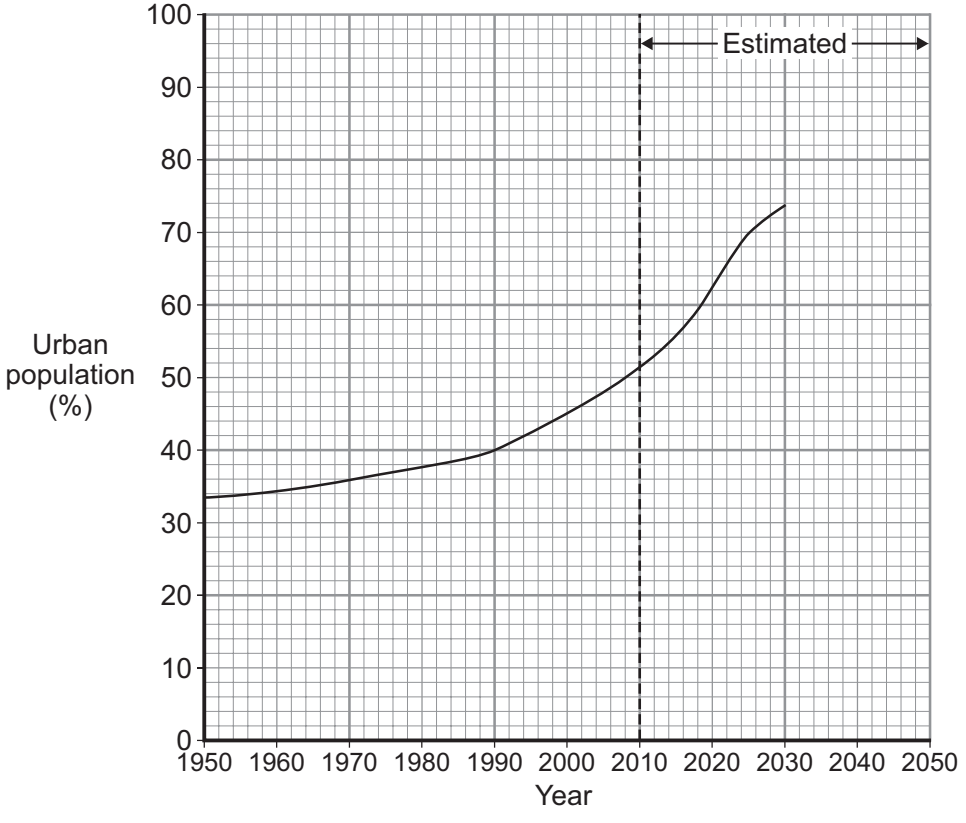
2 (a) Study **Figure 5**. **Figure 5** which gives information about living in an urban world.

Figure 5

Living in an urban world

In 1950, one person in three lived in a town or city. By 2008, half of the world's population lived in urban areas. The urban population is expected to increase to 70% by 2025.

In 1950, New York (USA) was the only city with a population of over 10 million. By 2015 it is estimated that there will be 27 cities with a population of over 10 million – 21 of them in less developed countries. Urban populations are growing faster in less developed countries. This growth is often linked to rapid economic development.



2 (a) (i) Complete the graph in **Figure 5**. Use the information below.

Estimated Urban Population

2040 = 75%

2050 = 78%

(2 marks)

2 (a) (ii) What percentage of the world's population lived in urban areas in 1990?

..... %

(1 mark)

2 (a) (iii) Which is the period of most rapid percentage growth in urban population?

Circle the correct answer.

1950 – 1990 **1990 – 2020** **2020 – 2050**

(1 mark)

2 (a) (iv) Complete the following paragraph.

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

33%	**increased**	**more developed**
50%	**decreased**	**less developed**

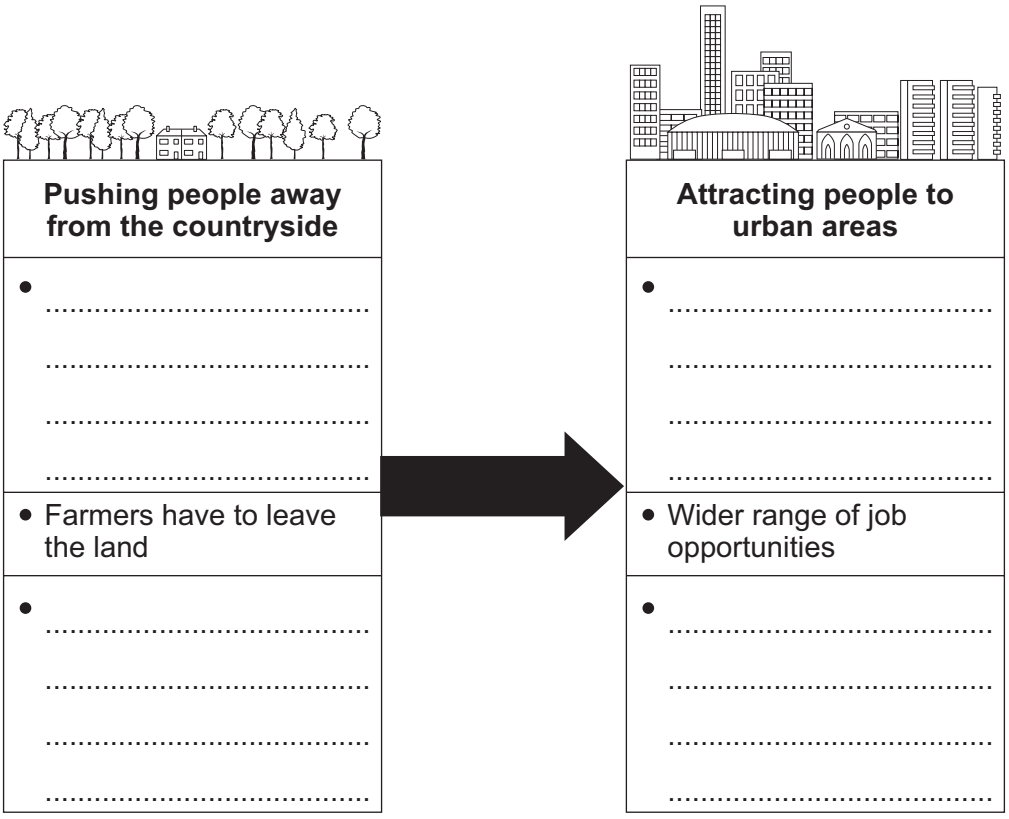
The world urban population has ..... steadily in the last sixty years. By 2008 ..... of the world's population lived in towns and cities and this figure is expected to increase to 70% by 2025. Most of this increase is in ..... countries where rates of urban growth are higher.

(3 marks)

Question 2 continues on the next page

2 (b) (i) Study **Figure 6**. **Figure 6** shows the reasons for rural–urban migration in less developed countries.

Figure 6



Complete **Figure 6**.

Write each of the following statements in the correct box.

- Access to services
- Poverty
- Drought
- Opportunities for training

(3 marks)

2 (b) (ii) Give **one** reason, other than migration, why the urban population is increasing in less developed countries.

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(1 mark)

2 (b) (iii) Explain how urban areas in less developed countries provide opportunities for economic development.

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Question 2 continues on the next page

2 (c) Study **Figure 7**, an Ordnance Survey map extract showing the town of Shrewsbury.

2 (c) (i) Give the four figure grid reference for the information centre.

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(1 mark)

2 (c) (ii) Suggest **two** reasons why parts of Shrewsbury are at risk of flooding.

Use evidence from the Ordnance Survey map extract, **Figure 7**.

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(4 marks)

2 (c) (iii) Explain how the effects of natural hazard(s) in urban areas can be reduced.

Use an example(s) you have studied.

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(5 marks)

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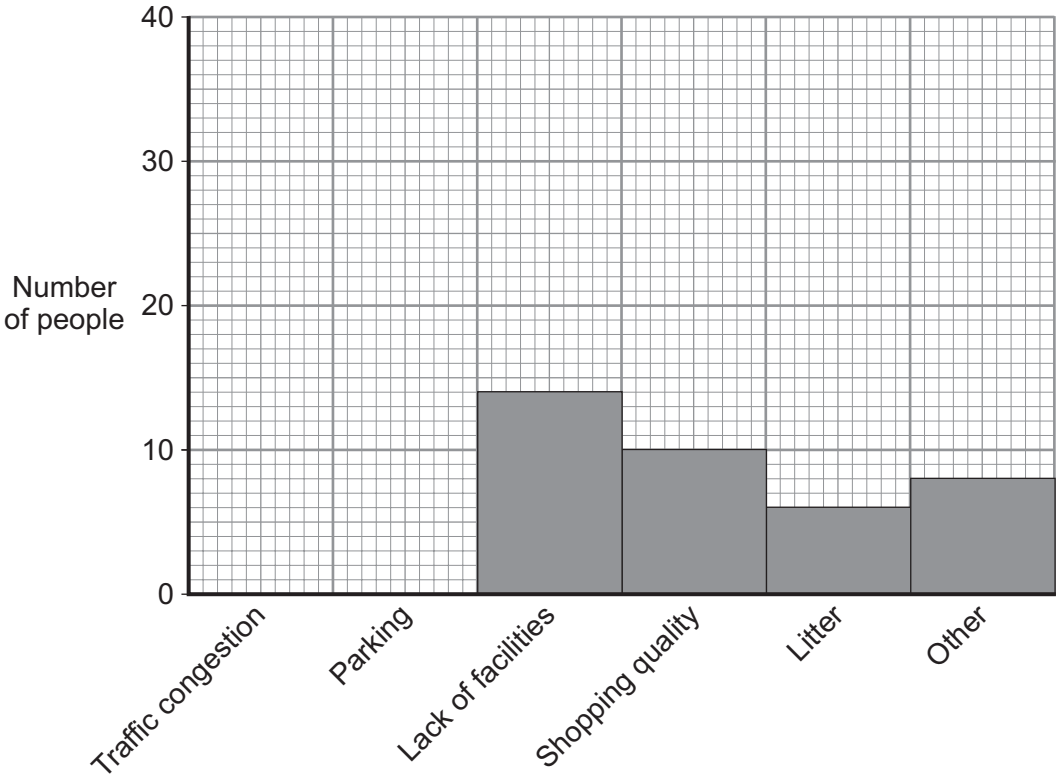
2 (d) One hundred people were asked what they thought was the main problem in Shrewsbury town centre.

The graph below shows the results of the survey.



Complete the graph. Use the information below.

Traffic congestion = 38 people

Parking = 24 people

(2 marks)

Question 2 continues on the next page

2 (e) (i) Using **Figure 7**, the Ordnance Survey map extract, suggest **one** reason why there is traffic congestion in Shrewsbury town centre.

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(2 marks)

2 (e) (ii) How far is the ring road (A49/A5) from Shrewsbury town centre?

Circle the correct answer.

less than 2 km **2 – 5 km** **more than 5 km**

(1 mark)

2 (e) (iii) What method of traffic management is shown in grid square 4513?

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(1 mark)

2 (f) Explain how traffic congestion could be reduced in town centres.

Use an example(s) you have studied.

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(6 marks)

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2 (g) Study **Figure 8**, on the insert, information about a new settlement being built in Devon.

2 (g) (i) Complete the table below. Write the correct term next to each definition.

eco-town **carbon neutral** **pedestrianisation** **urban management**

Term	Definition
	making sure the town runs smoothly
	creating traffic-free areas
	a settlement that does not harm the environment

(3 marks)

2 (g) (ii) What is a 'community settlement'?

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(2 marks)

Question 2 continues on the next page

2 (g) (iii) Explain how planners are trying to ensure that Sherford is a sustainable settlement.

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(6 marks)

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END OF QUESTIONS

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Question 1 Figure 1 © Jupiterimages
Question 2 Figure 8 Illustration by CHRISTOPHER DRAPER for Red Tree.