

Surname						Other Names					
Centre Number						Candidate Number					
Candidate Signature											

For Examiner's Use
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General Certificate of Secondary Education  
June 2008

**GEOGRAPHY (SPECIFICATION A)  
HIGHER TIER  
SHORT COURSE**

**3036/H  
H**



Wednesday 4 June 2008 9.00 am to 10.30 am

**For this paper you must have:**

- the Ordnance Survey map extract (enclosed);
  - the insert (enclosed).
- You may use a calculator.

Time allowed: 1 hour 30 minutes

**Instructions**

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.

**SECTION A Skills**

Answer **ALL** questions.

**SECTION B** Answer **TWO** questions only.

**SECTION C** Answer **ONE** question only.

- Use case studies to support your answers where appropriate.
- **You must answer the questions in the spaces provided. Answers written in margins or on blank pages will not be marked.**
- Do all rough work in this book. Cross through any work you do not want to be marked.
- If you need extra paper use the Supplementary Answer Sheets.

**Information**

- The maximum mark for this paper is 70.
- The marks for questions are shown in brackets.
- You will be marked on your ability to:
  - present relevant information in a form and style that suits its purpose;
  - ensure that text is legible and that spelling, punctuation and grammar are accurate;
  - use specialist vocabulary where appropriate.
- LEDC is a Less Economically Developed Country.
- MEDC is a More Economically Developed Country.
- Use case studies in your answers where appropriate.



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**3036/H**

For Examiner's Use			
Question	Mark	Question	Mark
1		9	
2		10	
3			
4			
5			
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7			
8			
Total (Column 1) →			
Total (Column 2) →			
TOTAL			
Examiner's Initials			

**SECTION A**Answer **ALL** questions in Section A.**1****Total for this question: 8 marks****1** Study **Figure 1**, the Ordnance Survey map extract of Lincoln in 2006.**1** (a) Give the distance along the A158 from the level crossing at 052759 to the roundabout at 005733.

..... km

*(2 marks)***1** (b) **Figure 2**, opposite, is a partly completed sketch map of Lincoln.**1** (b) (i) Using **Figure 1**, complete **Figure 2** by naming features **X** and **Y**.*(2 marks)***1** (b) (ii) Explain how each feature affects the shape of Lincoln.**X** .....

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**Y** .....

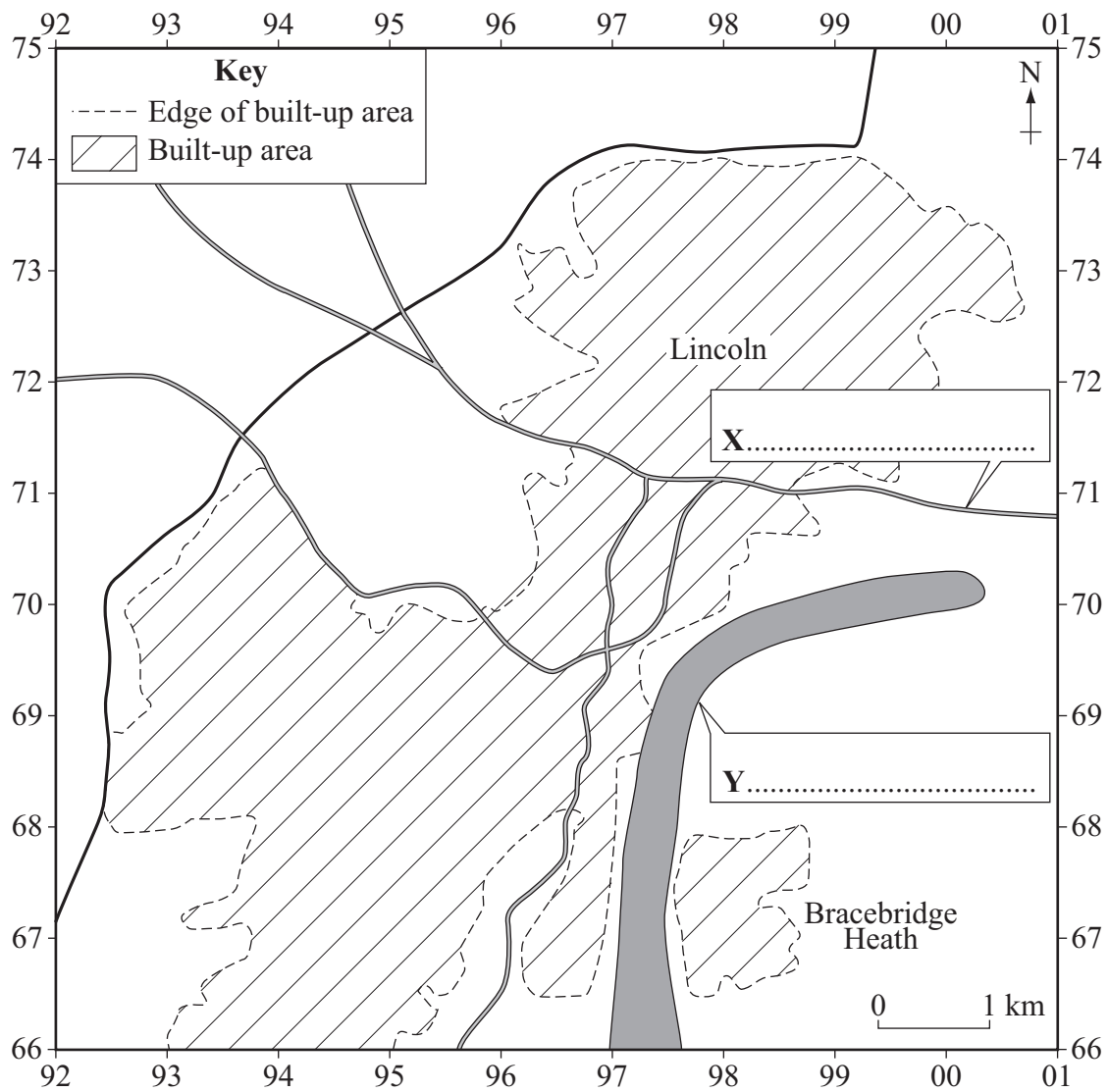
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*(4 marks)*

Figure 2



Turn over for the next question

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2

**Total for this question: 10 marks**

2 Study **Figure 3**, on the insert, an Ordnance Survey map extract of Lincoln in 1980, and **Figure 1**, the Ordnance Survey map extract of Lincoln in 2006.

2 (a) Compare the road system in 1980 with that in 2006.

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*(4 marks)*

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2 (b) Describe how Birchwood (named in grid square 9369) has changed between 1980 and 2006.

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*(6 marks)**(Extra space)* .....

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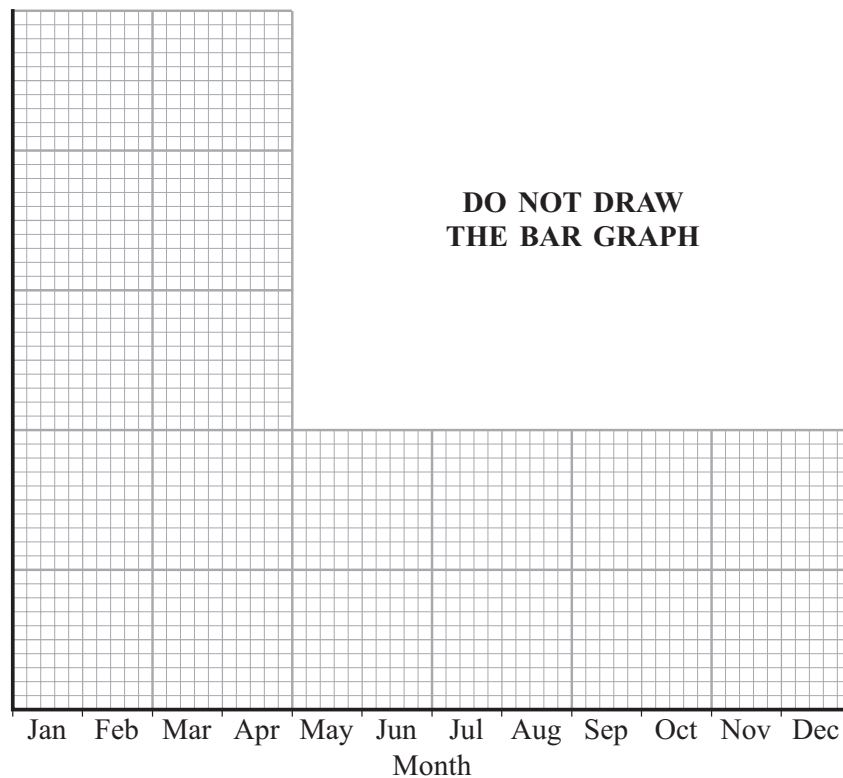
**Total for this question: 2 marks**

- 3 Study **Figure 4** which shows the number of visitors to Lincoln Cathedral in a recent year.

**Figure 4**

Month	Number of Visitors (000's)
January	3
February	6
March	14
April	15
May	10
June	8
July	11
August	16
September	9
October	10
November	3
December	5

- 3 A bar graph could be drawn to present this information.  
Complete the vertical axis on the graph paper below.

*(2 marks)***END OF SECTION A**

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**Turn over for Section B**

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## SECTION B

Answer **TWO** questions only in Section B.

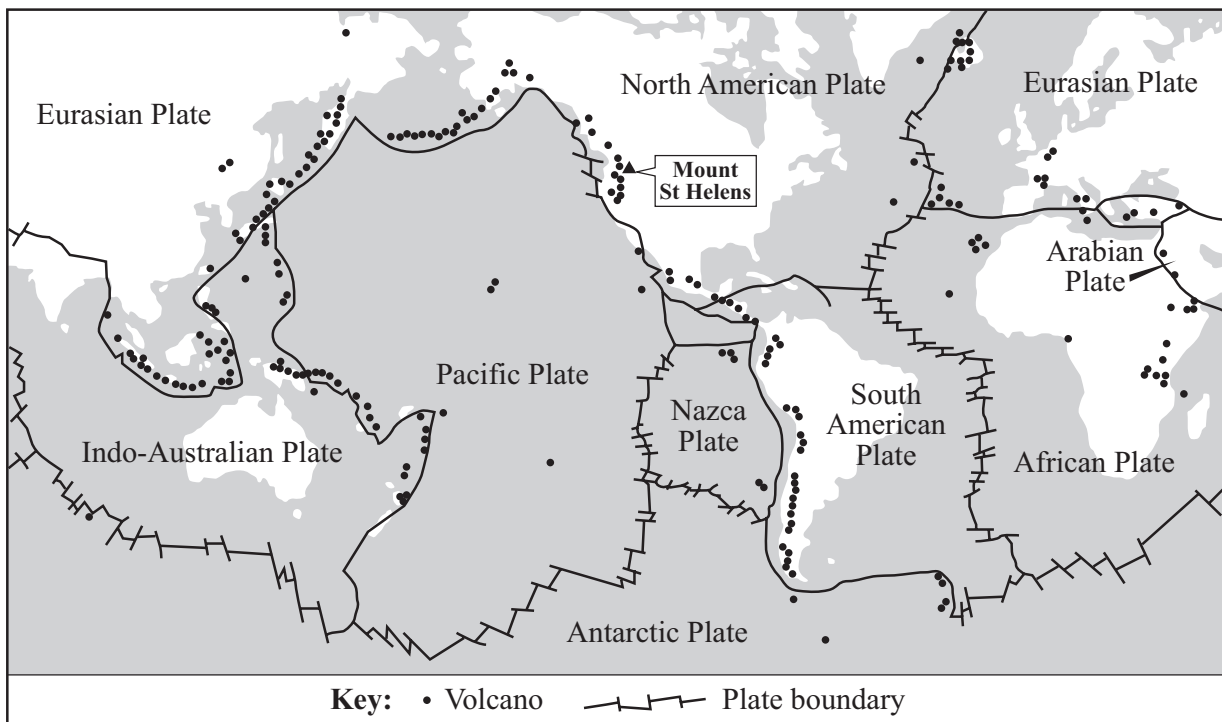
Use case studies to support your answers where appropriate.

### 4 Tectonic Activity

Total for this question: 15 marks

- 4 (a) Study **Figure 5** which shows the distribution of volcanoes.

**Figure 5**



- 4 (a) (i) Give **two** facts about the distribution of volcanoes.

Fact 1 .....

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Fact 2 .....

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(2 marks)

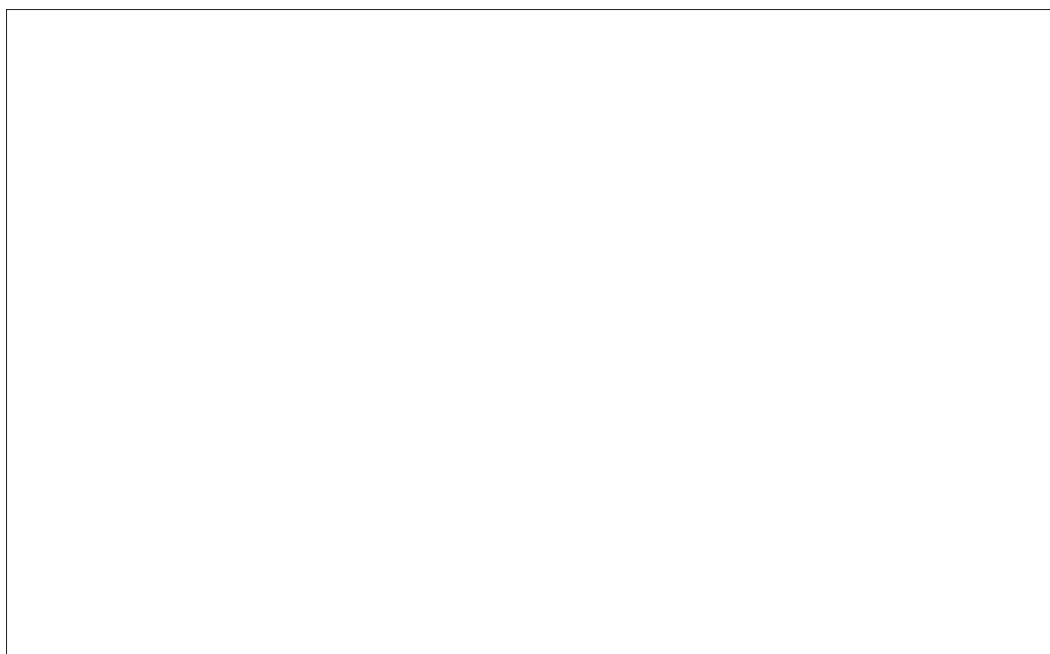




- 4 (a) (ii) The location of Mount St Helens, an active volcano in the USA, is shown on **Figure 5**.

This volcano occurs at a compressional (destructive) plate boundary.

Draw a labelled diagram to explain why volcanoes occur at compressional plate boundaries.



(4 marks)

- 4 (b) Study **Figure 6**, on the insert, which shows information about the area north of the crater of Mount St Helens.

Describe the varied opportunities for tourism.

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(3 marks)

**Question 4 continues on the next page**

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- 4 (c) Earthquakes are another example of tectonic activity.  
Using an example, describe the primary and secondary effects of an earthquake.

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(6 marks)

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**5 River Landscapes and Processes****Total for this question: 15 marks**

**5** (a) Study **Figure 7**, on the insert, a photograph of the upper course of the Yellowstone River, USA. **Figure 8** is a black and white copy of **Figure 7**.

**5** (a) (i) On **Figure 8**, a waterfall has been labelled.

Mark with an arrow and label three other features of the river and its valley in its upper course.

(3 marks)

**Figure 8**



Waterfall

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**5** (a) (ii) Explain the formation of a waterfall.

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*(6 marks)*

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**5 (b)** Study **Figure 9**, on the insert, which shows flooding in Carlisle, a city in northern England, in January 2005.

**5 (b) (i)** With the help of **Figure 9**, suggest why Carlisle flooded in January 2005.

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(4 marks)

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**5 (b) (ii)** Describe **one** way in which the risk of flooding might be reduced.

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(2 marks)

15

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**6 Glacial Landscapes and Processes****Total for this question: 15 marks**

- 6 (a)** Study **Figure 10**, on the insert, a photograph of Lauterbrunnen Valley, Switzerland, a glacial trough.

**Figure 11** is a black and white copy of **Figure 10**.

- 6 (a) (i)** On **Figure 11**, a waterfall has been labelled.

Mark with an arrow and label **three** other landforms.

*(3 marks)*

**Figure 11**



Waterfall



**6** (a) (ii) Explain the formation of a glacial trough.

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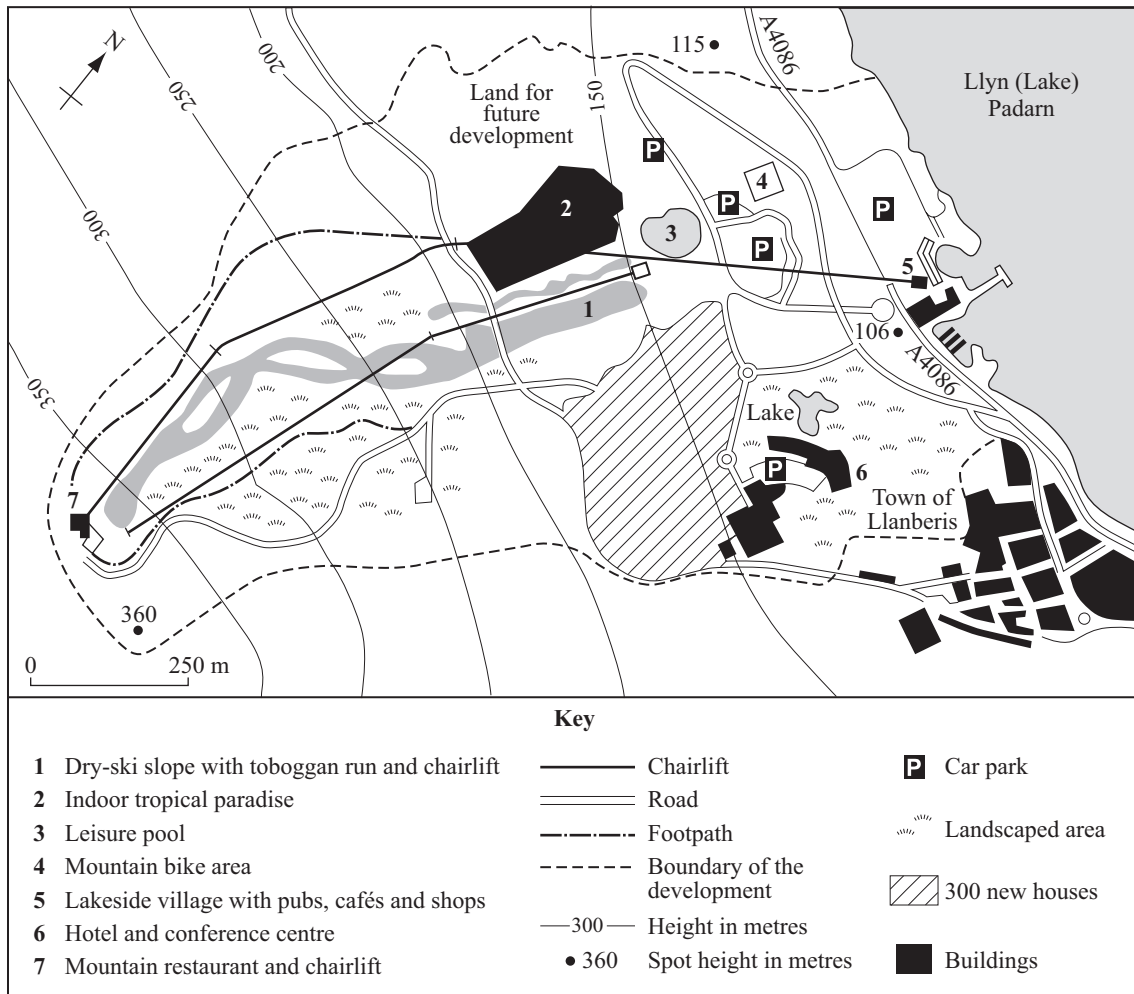
**Question 6 continues on the next page**

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- 6 (b) Study **Figure 12** which shows a proposed tourist development in an upland glaciated area in Snowdonia, a National Park in North Wales.

**Figure 12**



- 6 (b) (i) Suggest why developments such as these are proposed in upland glaciated areas like Snowdonia.

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(2 marks)





- 6 (b) (ii)** Explain why some people might be against this proposed tourist development.

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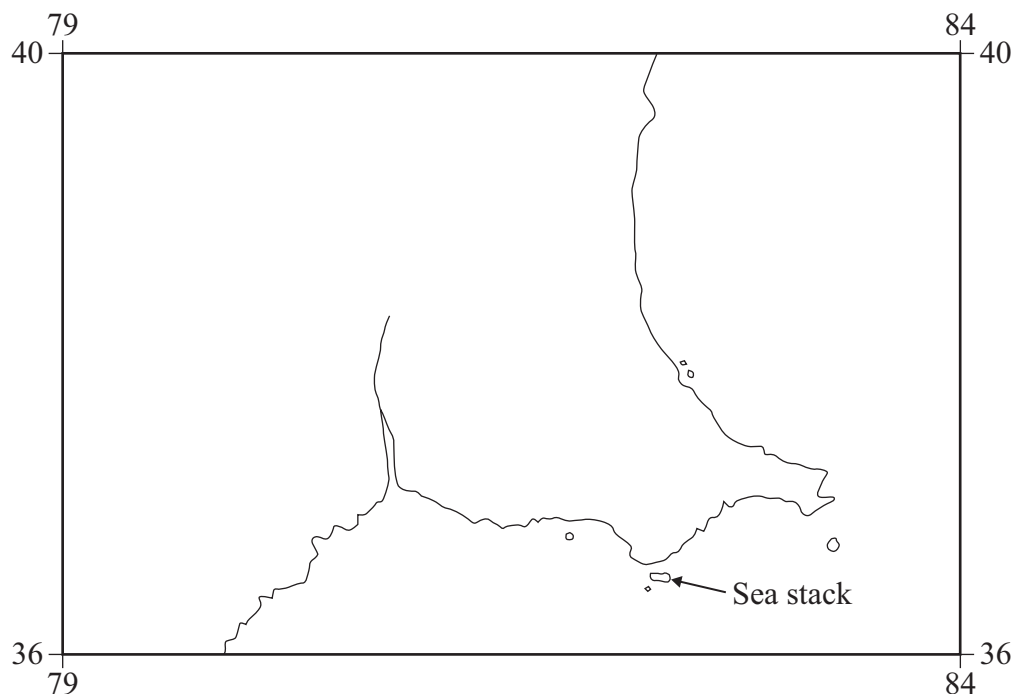
**7 Coastal Landscapes and Processes****Total for this question: 15 marks****7 (a)** Give **two** differences between destructive waves and constructive waves.

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*(2 marks)***7 (b)** Study **Figure 13**, on the insert, an Ordnance Survey map extract of Start Point, South Devon. **Figure 14** is a sketch map of **Figure 13**.**7 (b) (i)** On **Figure 14**, a sea stack has been labelled.  
Mark with an arrow and label **three** other landforms resulting from coastal erosion.*(3 marks)***Figure 14**

7 (b) (ii) Explain the formation of a sea stack.

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- 7 (c) Study **Figure 15**, on the insert, a photograph of coastal defences at Mappleton, east Yorkshire.

Explain how the coast is being protected from erosion by the sea.

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**END OF SECTION B**



## SECTION C

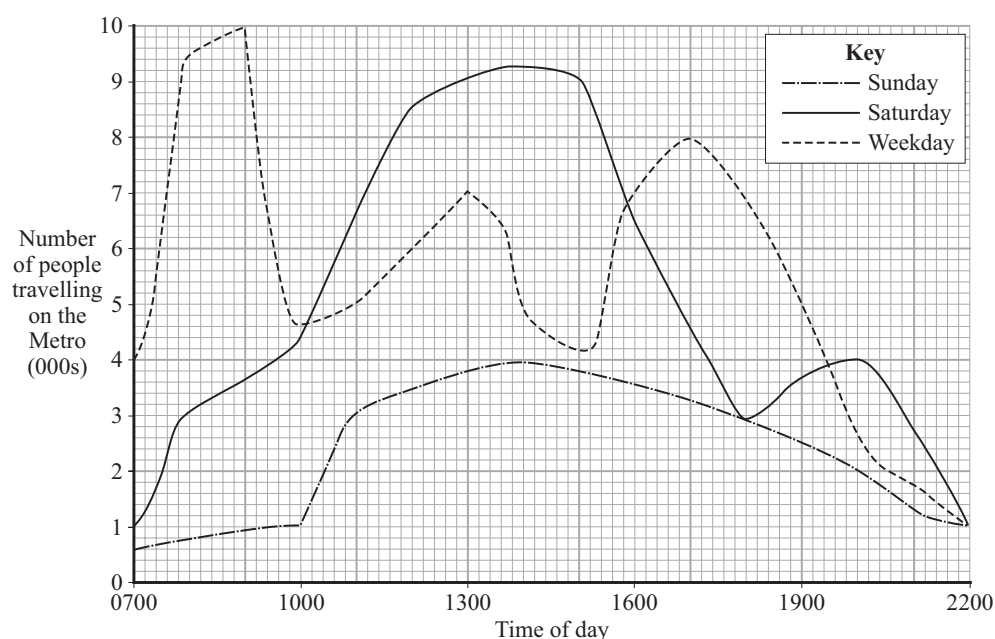
Answer **ONE** question in this section, **either** Question 8 **or** Question 9 **or** Question 10.  
Use case studies to support your answers where appropriate.

## 8 Settlement

Total for this question: 20 marks

- 8 (a) Study **Figure 16** which shows the average number of people travelling on the Tyneside Metro in N.E. England. The Metro is a light railway public transport system.

Figure 16



- 8 (a) (i) Compare the pattern of travelling on the Metro on weekdays with that of Saturdays and Sundays.

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(4 marks)

Question 8 continues on the next page

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- 8 (a) (ii) Using **one** or **more** examples, describe how authorities have tried to cope with the problems of traffic in towns.

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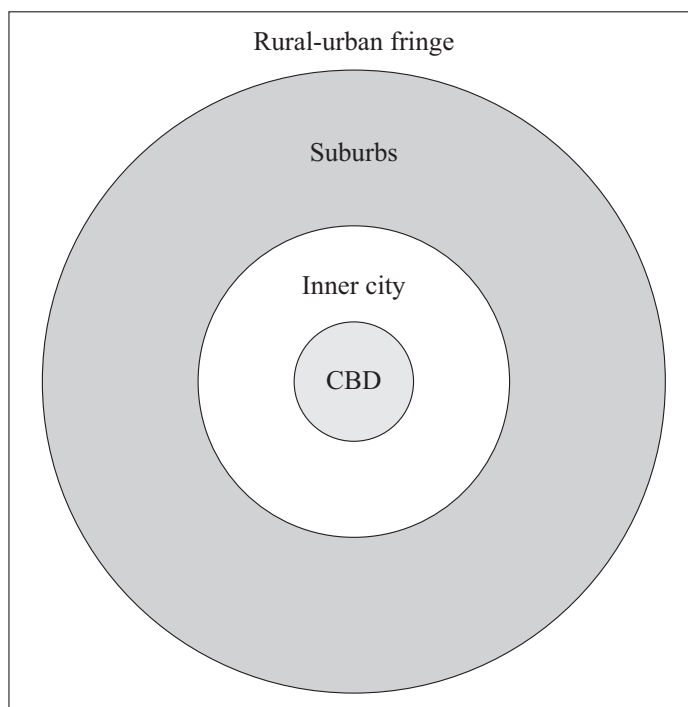
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(4 marks)

- 8 (b) (i) Study **Figure 17** which is a simple urban model with the four zones of a city in an MEDC.

Annotate **Figure 17** to show the different types of land use found in **each** urban zone.

**Figure 17**



(4 marks)



A new main road running along the edge of the city.

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**8 (b) (iii) Choose **one** of the following.**

## Shanty towns in LEDCs

Using an example, describe what is being done to improve peoples' quality of life in the area.

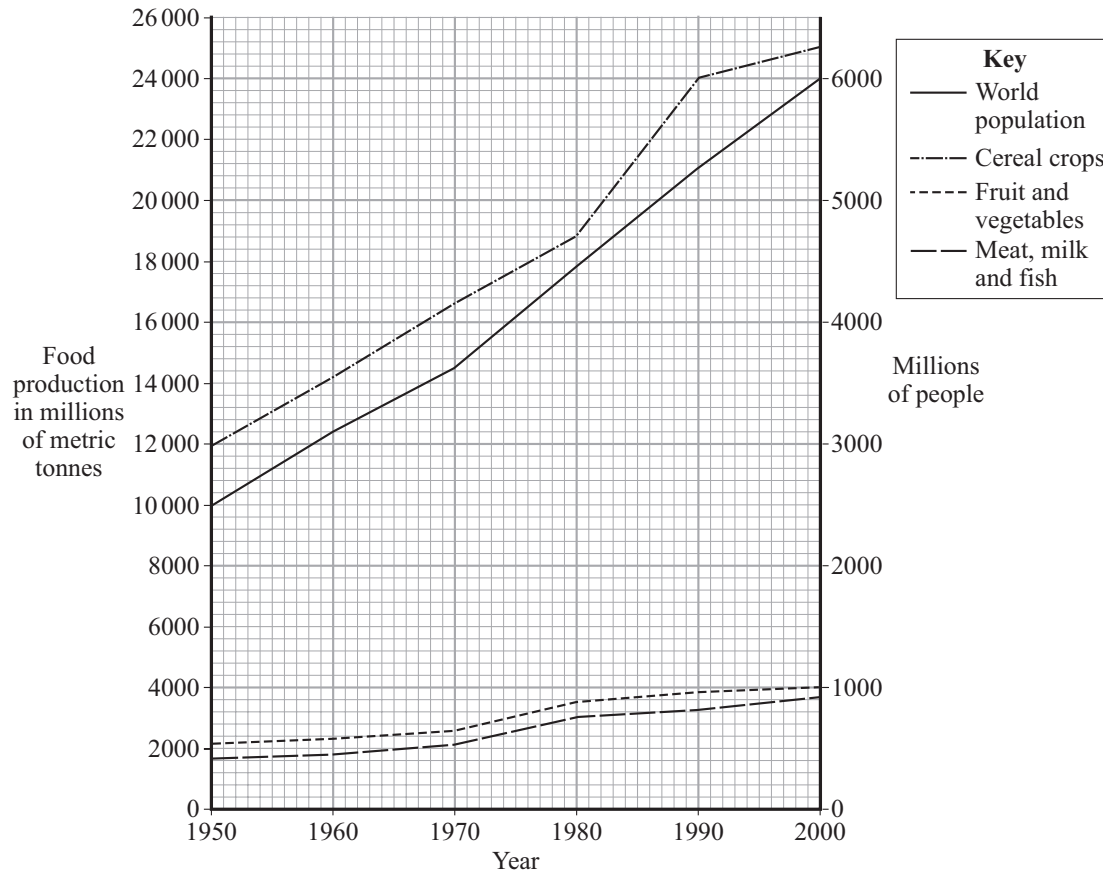
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**9 Agriculture****Total for this question: 20 marks**

- 9 (a)** Study **Figure 18** which shows the change in the world's population and the production of some foods between 1950 and 2000.

**Figure 18**

- 9 (a) (i)** Compare the pattern of growth of the world's population and the production of some foods between 1950 and 2000.

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*(4 marks)*



- 9 (a) (ii) Explain how increasing food production may result in damage to the environment.

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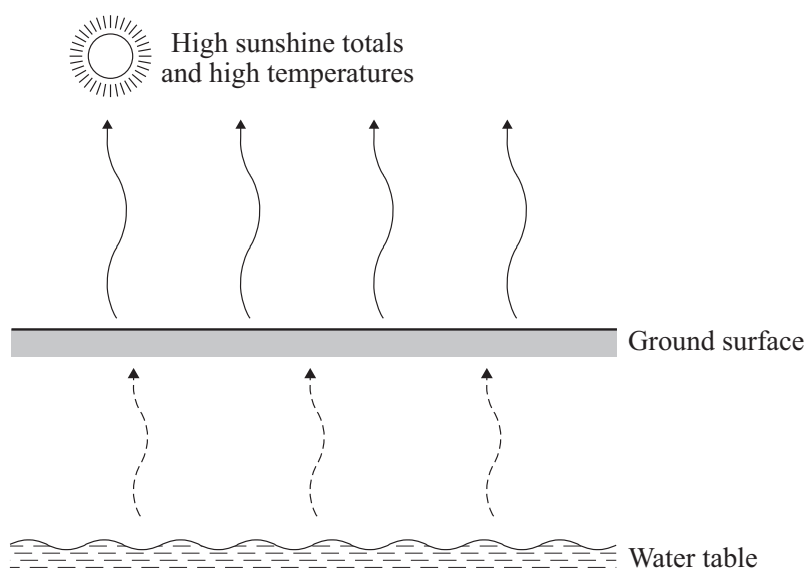
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(4 marks)

- 9 (b) Salinisation is a problem that has occurred as a result of changes to farming in LEDCs. **Figure 19** is a diagram showing the process of salinisation.

**Figure 19**



- 9 (b) (i) Annotate the diagram to explain the process of salinisation. An example has been done for you.

(3 marks)

- 9 (b) (ii) Give **one** reason why salinisation has become an increasing problem in LEDCs.

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(1 mark)

Question 9 continues on the next page

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- 9 (c) Give **two** ways in which farmers may have benefited from changes to farming in LEDCs.

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(2 marks)

- 9 (d) Choose **one** of the following.

**Intensive farming**

**Extensive farming**

Circle the **one** chosen.

Using an example, describe the main features of your chosen type of farming.

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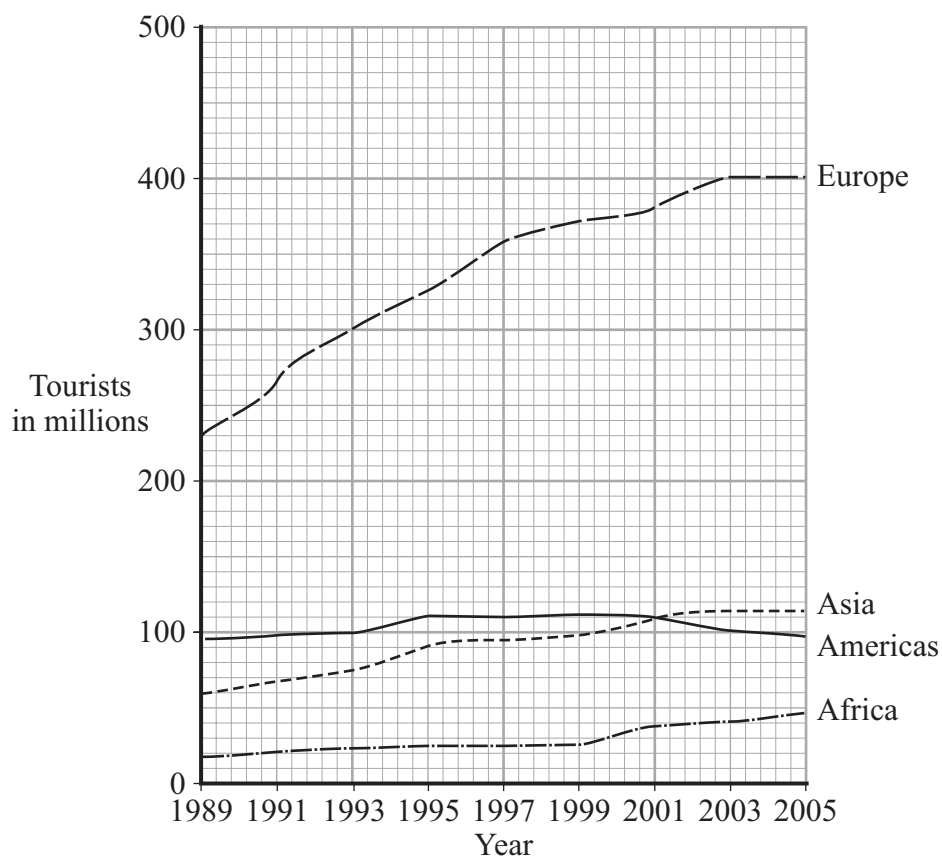
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(6 marks)



**10 Managing Resources****Total for this question: 20 marks**

- 10 (a)** Study **Figure 20** which shows the numbers of tourists visiting different parts of the world between 1989 and 2005.

**Figure 20**

- 10 (a) (i)** Compare the pattern of the number of tourists to Europe with that of tourists to other parts of the world named on **Figure 20** over the period 1989 to 2005.

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*(4 marks)***Question 10 continues on the next page****Turn over ►**

**10 (a) (ii)** Explain why tourists visit LEDCs.

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*(4 marks)*

**10 (a) (iii)** Choose **one** of the following.

**A named tourist area in the UK**

**A named tourist area in an LEDC**

Circle the **one** chosen.

Describe the effects of the development of tourism on the environment of the area.

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*(6 marks)*

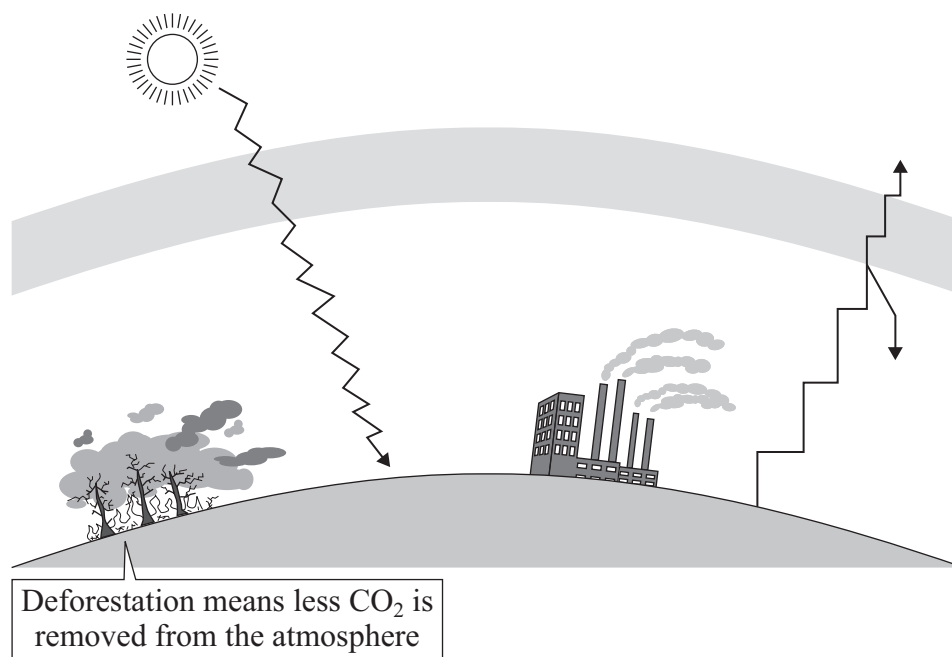


10 (b) Study **Figure 21**, which shows the process of global warming.

10 (b) (i) Annotate **Figure 21** to explain the process of global warming.

An example has been done for you.

**Figure 21**



(4 marks)

10 (b) (ii) Give **two** possible benefits of global warming.

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(2 marks)

**END OF QUESTIONS**

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Question 3 Figure 4: courtesy of Lincoln Cathedral

Question 4 Figure 5: [vulcan.wr.usgs.gov/cascades volcano observatory](http://vulcan.wr.usgs.gov/cascades_volcano_observatory)

Question 6 Figure 12: from *Understanding GCSE Geography: Teacher's Resource Pack* 2nd Ed. by Ann Bowen and John Pallister. Reprinted by permission of Pearson Publishers Oxford Ltd.

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