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General Certificate of Secondary Education  
June 2004



**GEOGRAPHY (SPECIFICATION A)  
Foundation Tier  
Paper 1**

**3031/1F**

**F**

Monday 7 June 2004 9.00 am to 10.45 am

**In addition to this paper you will require:**

- the Ordnance Survey map extract (enclosed);
- the insert (enclosed).

You may use a calculator.

For Examiner's Use			
Number	Mark	Number	Mark
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
Total (Column 1)	→		
Total (Column 2)	→		
TOTAL			
Examiner's Initials			

Time allowed: 1 hour 45 minutes

**Instructions**

- Use blue or black ink or ball-point pen. You may use pencil for maps, diagrams and graphs.
- Fill in the boxes at the top of this page.

• **SECTION A – Skills**  
Answer **ALL** questions

• **SECTION B – People and the Natural Environment**  
Answer **THREE** questions only

- Do all rough work in this book. Cross through any work you do not want marked.
- If you need extra paper, use the Supplementary Answer Sheets.

**Information**

- The maximum mark for this paper is 70.
- Mark allocations are shown in brackets.
- You will be assessed 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.

**3031/1F**

**SECTION A**Answer **ALL** questions.**1****Total for this question: 13 marks**(a) Study **Figure 1**, the Ordnance Survey map extract of Darlington in north east England.(i) Tick the correct box for each statement to show if it is **true** or **false**.

	<b>True</b>	<b>False</b>
The A1(M) motorway is located east of Darlington.	<input type="checkbox"/>	<input type="checkbox"/>
The River Skerne, named in grid square 3118, flows south through Darlington.	<input type="checkbox"/>	<input type="checkbox"/>
The principal railway station is mostly located in grid square 2914.	<input type="checkbox"/>	<input type="checkbox"/>

*(3 marks)*

(ii) What is the distance by rail from Dinsdale railway station in grid square 3413 to the principal railway station in Darlington?

.....

*(2 marks)*

(iii) Study the following grid squares:

2615, 2913, 3011, 3017, 3115.

Complete the following table by choosing the correct grid square for each correct description.

<b>Description</b>	<b>Grid Square</b>
An area of mainly terraced housing close to the railway	
An area with more modern housing	
An industrial area on the outskirts of the town	
On the edge of the town, partly used as a golf course	

*(4 marks)*

(iv) Describe the land uses and other features in grid square 2613.

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*(4 marks)*

      
13

**TURN OVER FOR THE NEXT QUESTION**

**Turn over ►**

**2****Total for this question: 7 marks**

Study **Figure 2**, a street atlas extract of Darlington, and **Figure 3**, on the insert, an aerial photograph of part of the central area of Darlington.

**Figure 2** Street map of Darlington, Crown Copyright. Has not been reproduced here due to third-party copyright constraints.

The road marked X on **Figure 3** is St Cuthbert's.

(a) (i) What is the building marked Z on **Figure 3**?

.....  
(1 mark)

(ii) Name the road marked Y on **Figure 3**.

.....  
(1 mark)

(iii) In which compass direction was the camera facing when the photograph was taken?

.....  
(1 mark)

(b) Suggest why square A2 on **Figure 2** is the Central Business District (city centre) of Darlington.

Use evidence from the map and photograph in your answer.

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(4 marks)

7

**TURN OVER FOR THE NEXT QUESTION**

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3

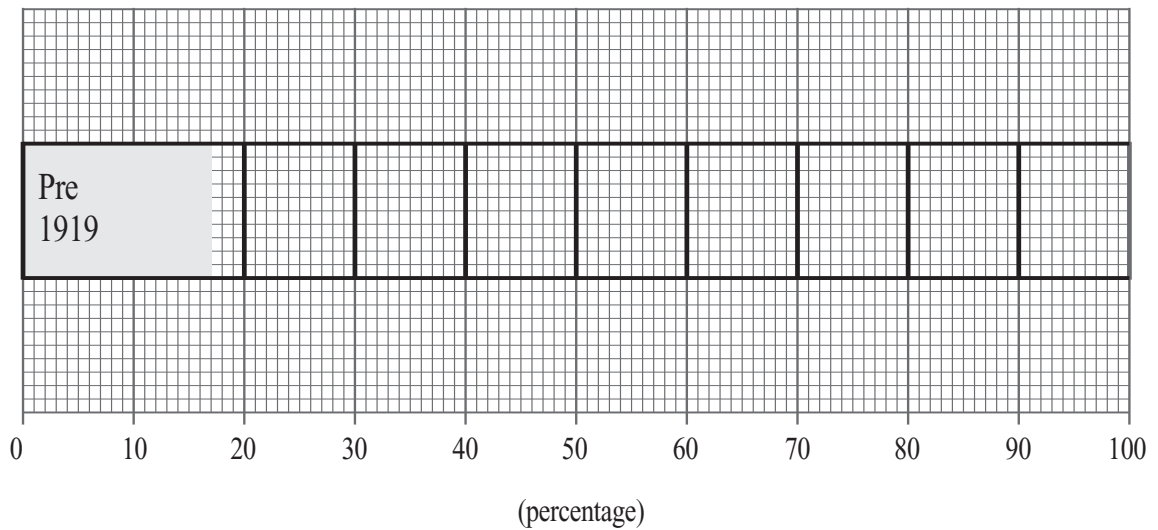
Total for this question: 5 marks

Study **Figure 4**, which shows an age profile of housing in Darlington.

Age of house	Percentage of housing
Pre 1919	17%
1919–1944	27%
1945–1960	14%
1961–1980	21%
1981–2001	21%

**Figure 4**

- (a) Complete the graph shown in **Figure 5**, using the information in **Figure 4**.  
The first one has been done for you.



**Figure 5**

(3 marks)

- (b) What does **Figure 5** suggest about the growth of Darlington?

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(2 marks)

**NO QUESTIONS APPEAR ON THIS PAGE**

**TURN OVER FOR THE NEXT QUESTION**

**Turn over ►**

**SECTION B**

Answer **THREE** questions only from this section.

**4 Tectonic Activity**

**Total for this question: 15 marks**

(a) Study **Figure 6**, on the insert, which shows the effects of the eruption of Mount St Helens in 1980.

(i) Using **Figure 6**, give **three** effects of the eruption on the natural environment.

- 1 .....
- .....
- 2 .....
- .....
- 3 .....
- .....

*(3 marks)*

(ii) Using **Figure 6**, explain how the eruption may have affected the local people.

- .....
- .....
- .....
- .....
- .....
- .....
- .....
- .....
- .....

*(4 marks)*



- (b) Mount St Helens is part of the Cascade Range of young fold mountains. Complete the sentences below to explain how fold mountains are formed. Choose the correct words from the list.

**eroded**                      **sandstone**                      **apart**                      **plate boundaries**  
**together**                      **deposited**                      **ocean ridges**                      **granite**

Fold mountains are formed along ..... . Over millions of years, thick sediments were ..... in huge depressions. The sediments were compressed into solid rocks such as..... . The plates moved ....., forcing the rocks upwards into fold mountains.

(4 marks)

- (c) Describe the human activities in an area of young fold mountains that you have studied.

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(4 marks)

**TURN OVER FOR THE NEXT QUESTION**

**Turn over ►**

**5 Rocks and Landscapes****Total for this question: 15 marks**

- (a) Study **Figure 7**, a fact file on a sand and gravel quarry at Ingham in Suffolk.

**Figure 7** Fact file on a sand and gravel quarry in Ingham, Suffolk.  
'Finding out about Quarries'; Grahame Middleton; Hobson's Publishing.  
Has not been reproduced here due to third-party copyright constraints.

- (i) Which rock type is quarried at Ingham?

Tick **one** box.

Igneous

Metamorphic

Sedimentary

*(1 mark)*

(ii) Using **Figure 7**, describe the **disadvantages** of Ingham Quarry.

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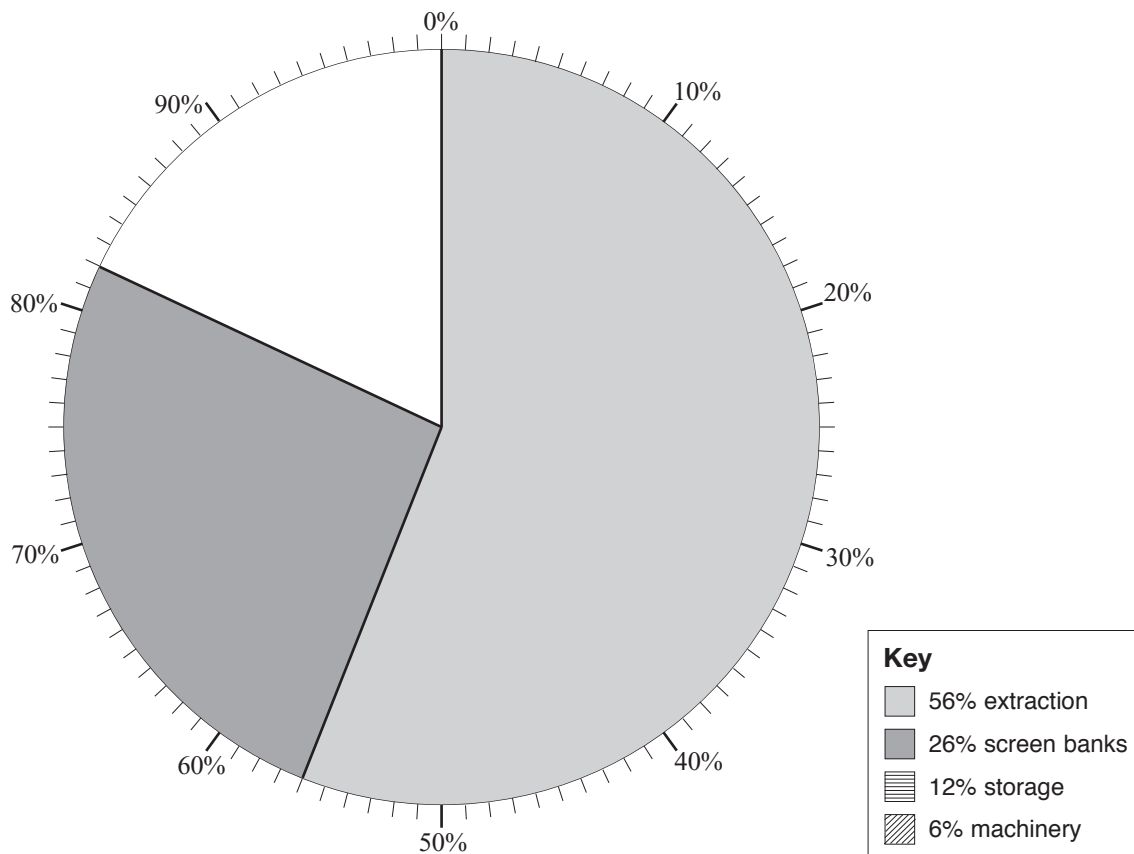
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(4 marks)

(b) **Figure 8** shows the different uses of the land at Ingham Quarry. Complete the pie chart in **Figure 8**, using the information in the key for storage and machinery.



**Figure 8**

(3 marks)

Turn over ►

(c) Frost shattering (or freeze thaw) breaks down or weathers rocks such as granite.

Complete the paragraph below to explain how frost shattering takes place.  
Choose the correct words from the list.

**layers**

**0°C**

**expands**

**joints**

**contracts**

**minus 5°C**

Rocks such as granite have many ..... . Water fills cracks in the rock,  
and when temperatures fall to below ..... , the water turns to ice  
and ..... , making the crack wider. When temperatures rise, the ice  
melts. Repeated freezing and thawing increase the size of the cracks until blocks of  
rock break off.

*(3 marks)*

(d) Describe the physical features of a granite landscape you have studied.

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*(4 marks)*

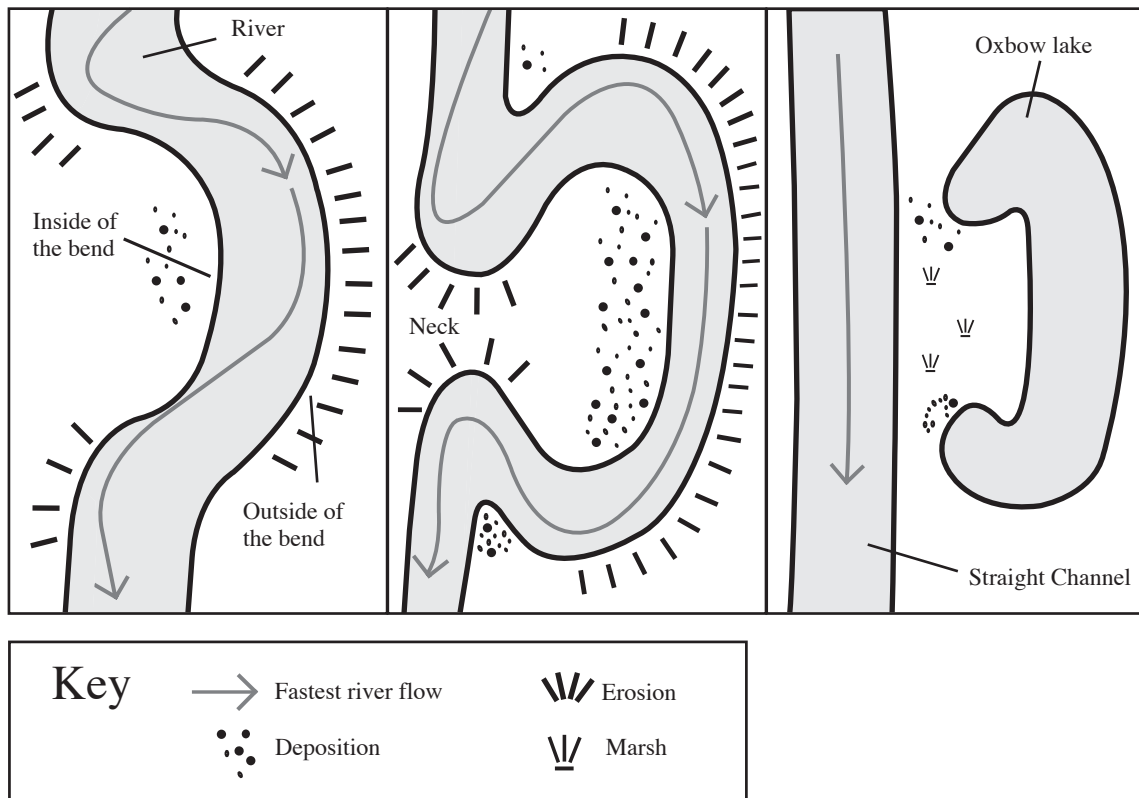
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**TURN OVER FOR THE NEXT QUESTION**

**Turn over ►**

## 6 River Landscapes and Processes

Total for this question: 15 marks

Study **Figure 9**, which shows the formation of an oxbow lake.**Figure 9**

- (a) Using the labels on **Figure 9**, complete the sentences below to explain how an oxbow lake is formed.

Erosion on the ..... of the bend of a meander and deposition on the inside make the meander wider and the ..... gets narrower. Often during a flood, the river breaks through, creating a channel and ..... seals off the old meander to form an oxbow lake.  
*(4 marks)*

- (b) Describe the **causes** of a river flood that you have studied.

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*(4 marks)*

**QUESTION 6 CONTINUES ON THE NEXT PAGE**

**Turn over ►**

(c) Study **Figure 10**, on the insert, which shows a map of the restoration works on the River Skerne in Darlington.

(i) Using **Figure 10**, give **three** changes that have taken place along this section of the River Skerne.

1 .....

.....

2 .....

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3 .....

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*(3 marks)*

(ii) Explain the advantages that the restoration scheme may bring to the area.

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*(4 marks)*



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

(a) Study **Figure 11**, on the insert, a photograph which shows part of the Lake District.

(i) In the space below, draw a simple sketch of the photograph.



*(2 marks)*

(ii) On your sketch, correctly label the following features:

**corrie and tarn lake**

**ribbon lake**

**arête**

*(3 marks)*

**Turn over ►**

(iii) Choose **one** of the features in the list in (ii) and explain how it was formed.

Name of feature:.....  
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(4 marks)

(b) Study **Figure 12**, which shows information about the erosion of a footpath in the Lake District.

**Figure 12** Table which shows information about the erosion of a footpath in the Lake District, from 'GCSE Geography for AQA Specifications B', Janet Helm, Arthur Robinson, Harcourt Education Ltd. Has not been reproduced here due to third-party copyright constraints.

(i) Using **Figure 12**, describe **one** change to the footpath between 1993 and 1995.

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(2 marks)

(ii) Describe how the problems of footpath erosion may be reduced.

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*(4 marks)*

15

**TURN OVER FOR THE NEXT QUESTION**

**Turn over ►**

8 Coastal Landscapes and Processes

Total for this question: 15 marks

- (a) Study **Figure 13**, which shows a planned coastal defence scheme for Lyme Regis in Dorset.

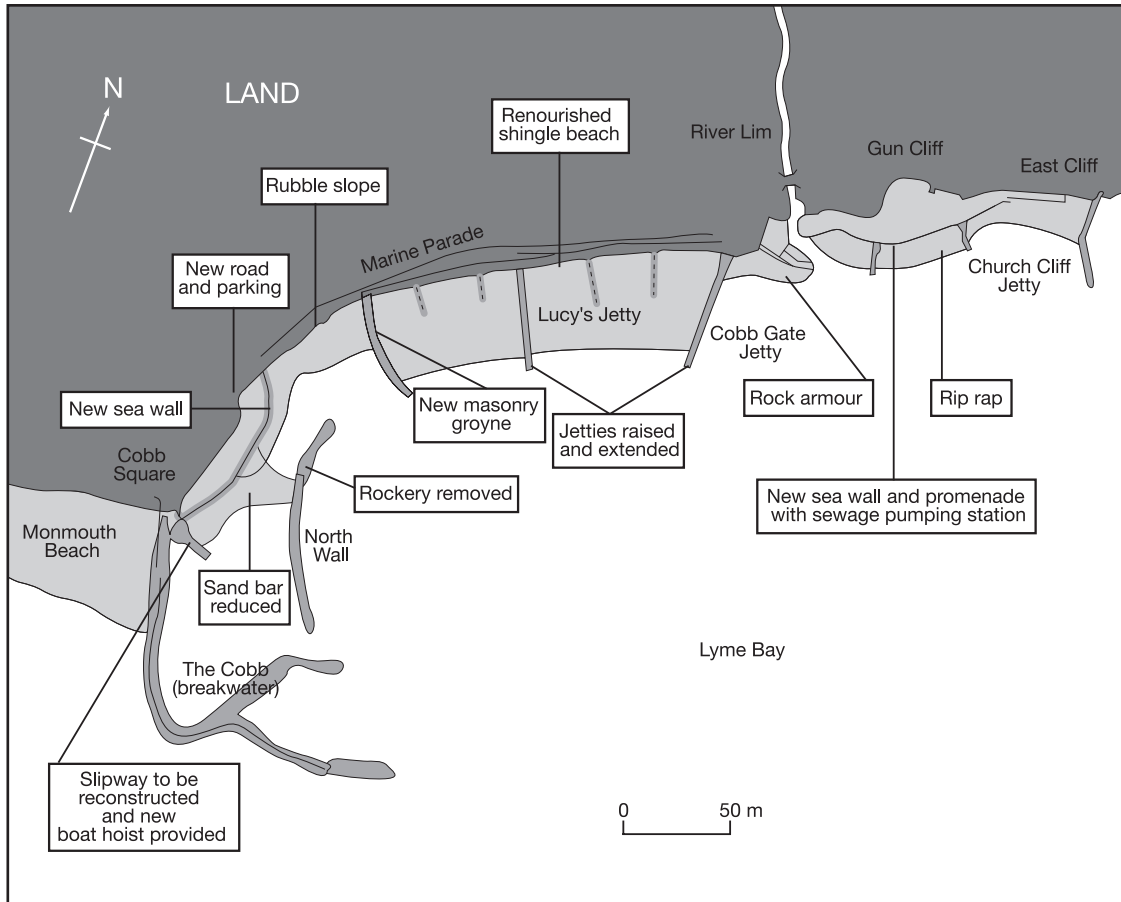


Figure 13

- (i) Using **Figure 13**, give **three** different ways in which the planned scheme may help to reduce coastal erosion.

1 .....

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2 .....

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3 .....

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(3 marks)

(ii) Explain how the scheme in **Figure 13** may benefit tourists visiting the coastline.

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*(4 marks)*

(iii) Suggest **one disadvantage** that the scheme may bring.

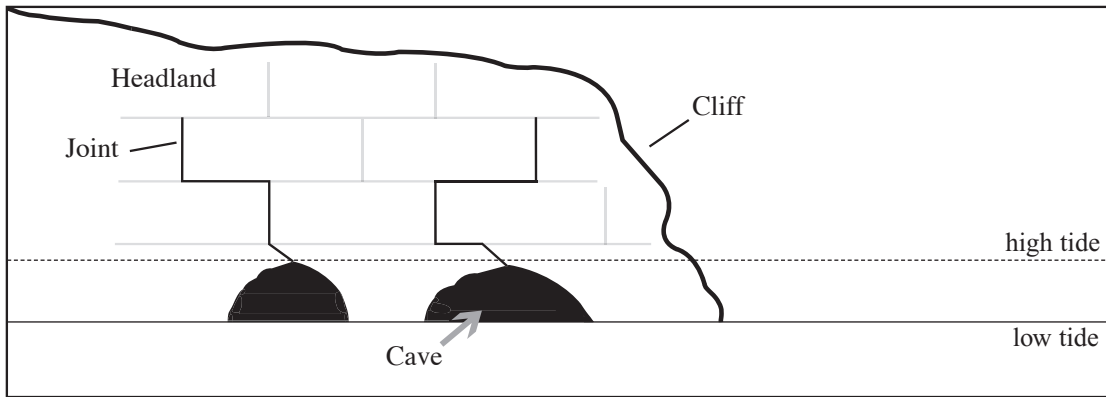
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*(1 mark)*

**QUESTION 8 CONTINUES ON THE NEXT PAGE**

**Turn over ►**

- (b) Study **Figure 14**, which shows a cross-section of a headland with cliffs and caves.



**Figure 14**

- (i) In the space below, draw and label a diagram(s) to show how a stack may develop at the end of the headland.



*(4 marks)*

(ii) Explain how hydraulic power and corrosion will help to create the stack.

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*(3 marks)*

15

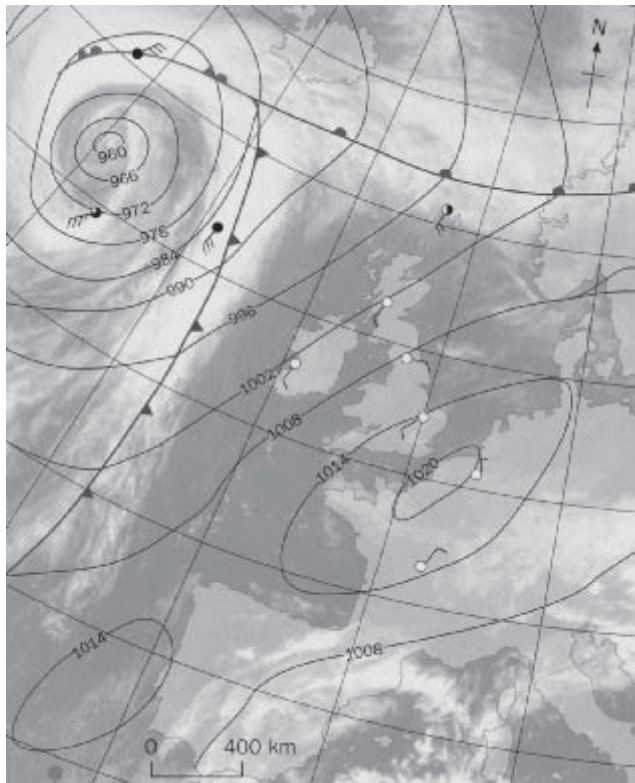
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**Turn over ►**

9 Weather and Climate

Total for this question: 15 marks

(a) Study **Figure 15**, a synoptic chart for June 10th.



Key	
—996—	Isobars showing pressure in millibars
○	no cloud cover
●	cloud cover $\frac{8}{8}$ ths
◐	cloud cover $\frac{4}{8}$ ths
↗	wind direction and wind speed, each half feather = 5 knots each full feather = 10 knots

**Figure 15**

(i) On **Figure 15**, add the following labels in the correct places.

**warm sector**

**cold front**

**centre of low pressure**

*(3 marks)*

(ii) What is the **lowest** pressure shown on the chart?

.....  
*(2 marks)*



(iii) Using **Figure 15**, complete the following paragraph to describe the typical weather of an anticyclone.

An anticyclone is an area of high pressure, in this case over ..... millibars. The winds are light because of the ..... pressure gradient. Winds blow in a ..... direction. There is no cloud cover so the weather is dry.

*(3 marks)*

(b) (i) Describe the **causes** of a drought that you have studied.

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*(3 marks)*

**QUESTION 9 CONTINUES ON THE NEXT PAGE**

**Turn over ►**

(ii) Explain the effects of the drought that you have written about in (i) on the local people.

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*(4 marks)*

15

**NO QUESTIONS APPEAR ON THIS PAGE**

**TURN OVER FOR THE NEXT QUESTION**

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10 Ecosystems

Total for this question: 15 marks

(a) Study **Figure 16**, which shows a plan to protect an area of tropical rainforest in Brazil.

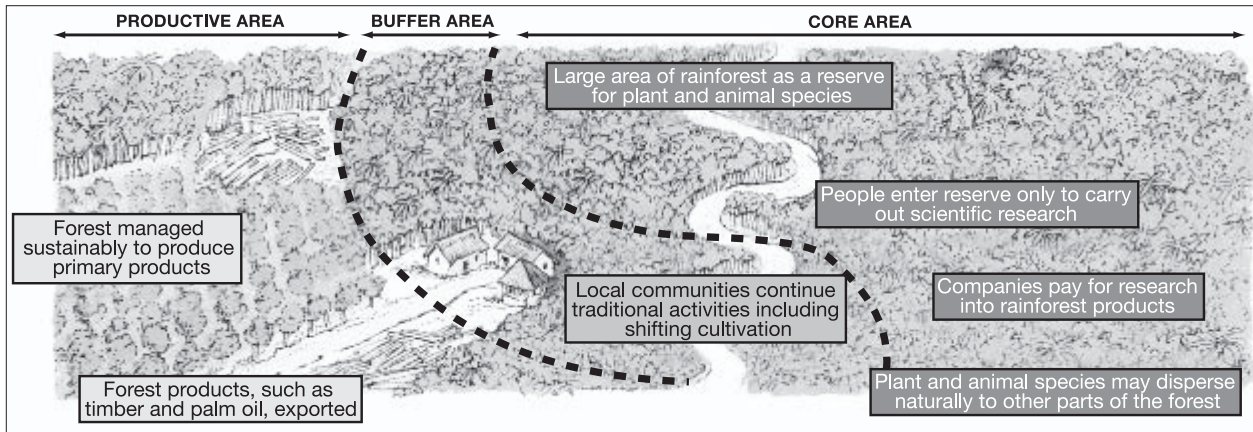


Figure 16

(i) Give **three** features of the plan for the core area shown in **Figure 16**.

- 1 .....
- .....
- 2 .....
- .....
- 3 .....
- .....

(3 marks)

(ii) Describe the advantages of the plan shown in **Figure 16** for the local people.

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*(4 marks)*

(iii) Complete the sentences below to explain why the tropical rainforest needs to be managed.

Choose the correct words from the list.

- |                 |                  |                  |
|-----------------|------------------|------------------|
| <b>flooding</b> | <b>formation</b> | <b>furniture</b> |
| <b>erosion</b>  | <b>pollution</b> | <b>money</b>     |

The tropical rainforest needs to be managed because it is very fragile. Removing the trees causes soil ..... and increases the threat of river ..... . The forests also contain many valuable resources that can be sold to provide ..... for the country.

*(3 marks)*

**Turn over ►**

(b) **Figure 17** shows an area of savanna (tropical) grassland.



**Figure 17**

(i) The savanna climate has a long dry season.  
What is the term used for a long dry season?

.....  
(1 mark)

(ii) Explain how the trees in savanna areas can survive the long dry season.

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(4 marks)

**END OF QUESTIONS**

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Question 10: Figure 17: Mark Boulton/CEC

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