

Surname						Other Names					
Centre Number						Candidate Number					
Candidate Signature											

For Examiner's Use

General Certificate of Secondary Education
June 2007

GEOGRAPHY (SPECIFICATION A)
Foundation Tier
Paper 1

3031/1F



Monday 4 June 2007 9.00 am to 10.45 am

F

For this paper you must have:

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

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.

- Use your case studies to support your answers where appropriate.
- 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 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.

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

SECTION AAnswer **ALL** questions in Section A.**1****Total for this question: 5 marks**Study **Figure 1**, on the insert, an atlas extract of South West England.

- (a) Which of these is the most southerly point shown on **Figure 1**?
Tick the correct box.

Land's End ☐Lizard Point ☐*(1 mark)*

- (b) Name the river that forms the boundary between Devon and Cornwall.

.....
(1 mark)

- (c) Locate the Isle of Portland in square F9. In which county is the Isle of Portland?

.....
(1 mark)

- (d) Give the latitude for the Isle of Portland.

.....
(2 marks)

5**2****Total for this question: 14 marks**Study **Figure 2**, an Ordnance Survey map extract of Weymouth and the Isle of Portland.

- (a) Name the symbol found at grid reference 679796.

.....
(1 mark)

- (b) Name the only road that connects the Isle of Portland to the mainland.

.....
(1 mark)

- (c) Give the distance along the A353 between the roundabouts at 677796 and 697827.

.....
(2 marks)

- (d) Give the direction you would be walking from the Isle of Portland along Chesil Beach.

.....
(1 mark)

- (e) Suggest why parts of Chesil Beach are shown as 'Danger Areas'.

.....
(1 mark)

- (f) Study **Figure 3**, on the insert, an aerial photograph of the Isle of Portland.
Name the following:

Coastal defence **X**.....

Land use **Y**.....

Settlement **Z**
(3 marks)

- (g) In which direction was the camera pointing when the photograph was taken?
Tick the correct box.

North ☐

South ☐

East ☐

(1 mark)

- (h) Using **Figure 2** and/or **Figure 3**, describe the distribution of settlement on the Isle of Portland.

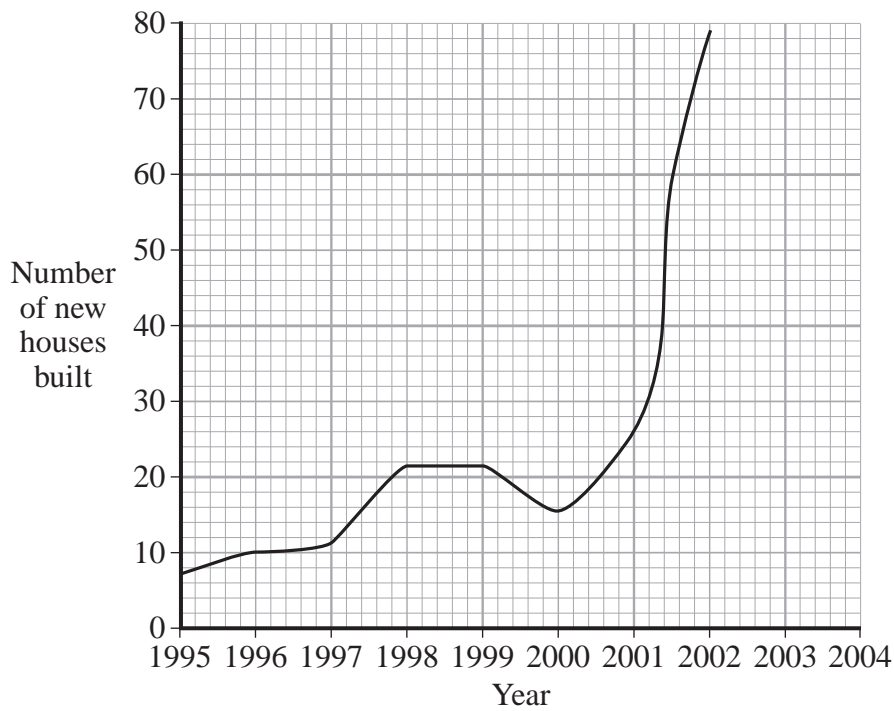
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(4 marks)

3

Total for this question: 6 marks

Study **Figure 4**, which gives the number of new houses built on the Isle of Portland since 1995.

Figure 4



(a) Complete **Figure 4** by using the figures below:

Year	Number of new houses built
2003	44
2004	61

(2 marks)

(b) Describe the changes shown on the graph.

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(4 marks)

6

END OF SECTION A

Turn over for Section B

SECTION B

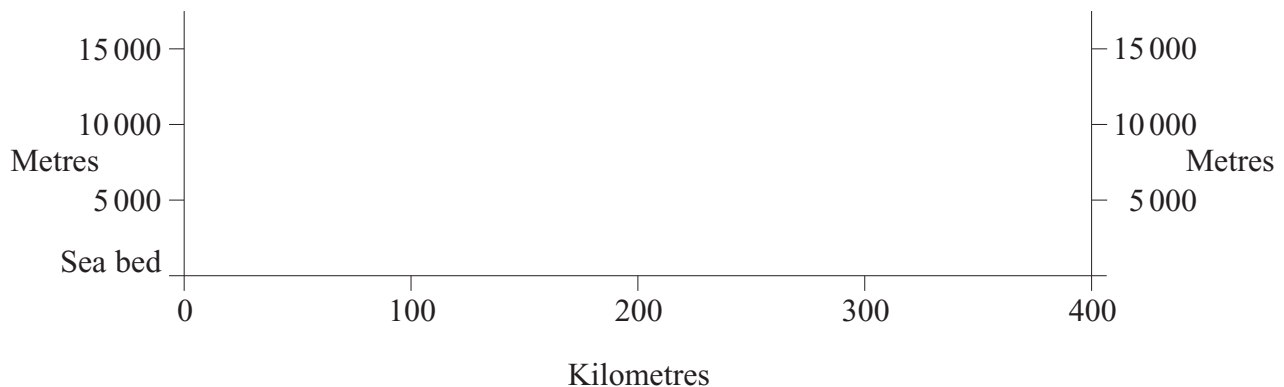
Answer **THREE** questions only in Section B.
Use your case studies to support your answers where appropriate.

4 Tectonic Activity**Total for this question: 15 marks**

- (a) (i) On the outline below, draw a cross-section through Mauna Loa, a volcano in Hawaii.

Use the following information:

- it is 400 kilometres wide at its base;
- it rises 10 000 metres above the sea bed;
- it has a central crater.

*(3 marks)*

- (ii) Tick the correct box to show whether each of the following statements about Mauna Loa is **true** or **false**.

	True	False
Mauna Loa has a wide base and gentle sides.	<input type="checkbox"/>	<input type="checkbox"/>
Mauna Loa is a shield volcano.	<input type="checkbox"/>	<input type="checkbox"/>
Mauna Loa is composed of acid lava that cools quickly.	<input type="checkbox"/>	<input type="checkbox"/>

(3 marks)

- (b) Describe the immediate effects of a volcanic eruption or earthquake that you have studied.

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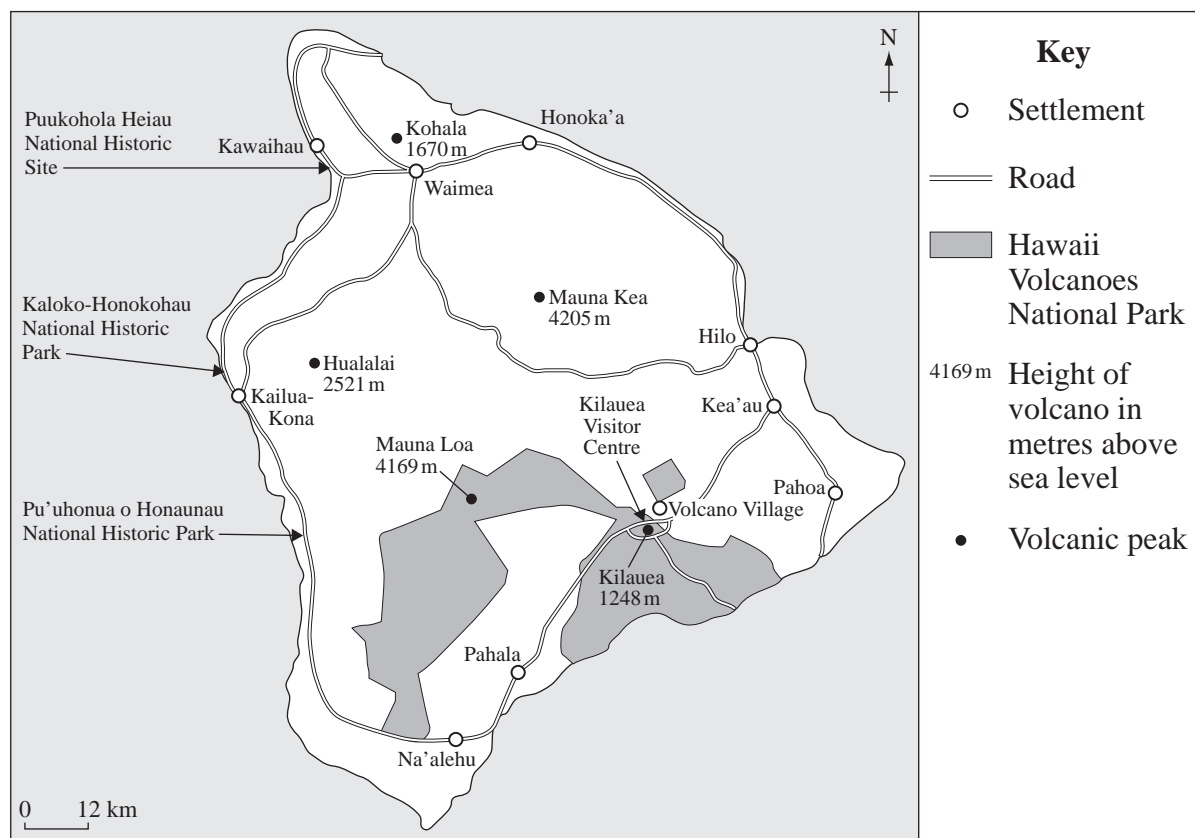
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(4 marks)

Question 4 continues on the next page

(c) Study **Figure 5** which shows the island of Hawaii.

Figure 5



- (i) Name the highest volcano on the island of Hawaii.

(1 mark)

- (ii) Give **one** tourist attraction that could be visited on the island.

(1 mark)

- (iii) Apart from tourism, describe some other advantages of living near volcanoes.

(3 marks)

There are no questions printed on this page

Turn over for the next question

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

- (a) Tick the correct box to show whether each of the following statements about metamorphic rocks is **true** or **false**.

	True	False
Metamorphic rocks have been changed by heat and/or pressure.	<input type="checkbox"/>	<input type="checkbox"/>
Two examples are limestone and clay.	<input type="checkbox"/>	<input type="checkbox"/>
Metamorphic rocks are resistant to erosion.	<input type="checkbox"/>	<input type="checkbox"/>

(3 marks)

- (b) Complete the paragraph below to explain the process of limestone solution. Choose the correct words from this list.

alkali	acid	hardens
carbon dioxide	dissolves	sulphur

Rainwater absorbs to become a weak

The rain attacks the rocks, and the limestone in the water. The limestone is carried away in solution.

(3 marks)

- (c) Study **Figure 6**, on the insert, which shows Tout Quarry on the Isle of Portland. The quarry closed 100 years ago and has been turned into a Sculpture Park, shown on **Figure 2**, the Ordnance Survey map extract.

- (i) Using **Figure 2**, the Ordnance Survey map extract, give the **four figure** grid reference for the Sculpture Park on the Isle of Portland.

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(1 mark)

- (ii) Give **one** piece of evidence from **Figure 2** or **Figure 6** to suggest that the rock type of the Isle of Portland is limestone.

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(1 mark)

- (iii) Describe the features of **Figure 6** that suggest it was a quarry in the past.

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(3 marks)

- (iv) Using **one or more** examples (apart from Sculpture Parks), describe how quarries have been used after the quarrying has ended.

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(4 marks)

15

Turn over for the next question

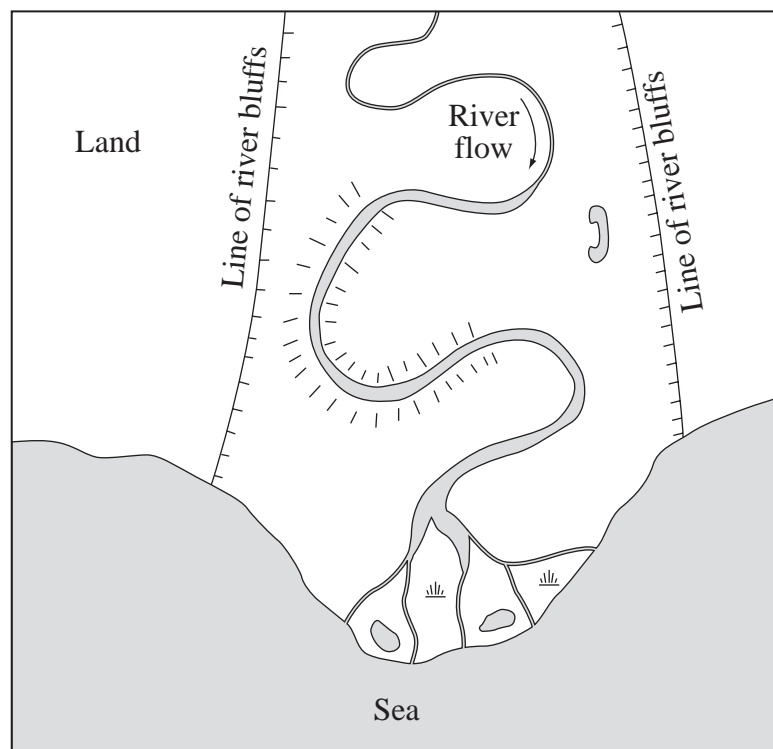
6 River Landscapes and Processes**Total for this question: 15 marks**

- (a) Tick the correct box to show whether or not each of the following is a process of river transport.

	True	False
Traction	<input type="checkbox"/>	<input type="checkbox"/>
Corrosion	<input type="checkbox"/>	<input type="checkbox"/>
Suspension	<input type="checkbox"/>	<input type="checkbox"/>

(3 marks)

- (b) Study **Figure 7** which shows some features of the lower course of a river.

Figure 7

- (i) On **Figure 7**, mark with an arrow and label:

delta**ox-bow lake.***(2 marks)*

- (ii) Complete the paragraph below to explain how levées are formed. Choose the correct words from this list.

valley **deposit** **channel** **velocity**
fences **level** **erode** **banks**

When a river overflows, the decreases and it begins to its load, the largest material first. After repeated floods, high called levées are formed at the sides of the river. If the river floods in the future, the effects could be severe as the water cannot drain back into the

(4 marks)

- (c) Study **Figure 8**, on the insert, a photograph showing the effects of the floods in Boscastle in 2004.

- (i) Describe the effects of the floods shown in **Figure 8**.

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(4 marks)

- (ii) Explain **one** way in which river flooding may be prevented.

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(2 marks)

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

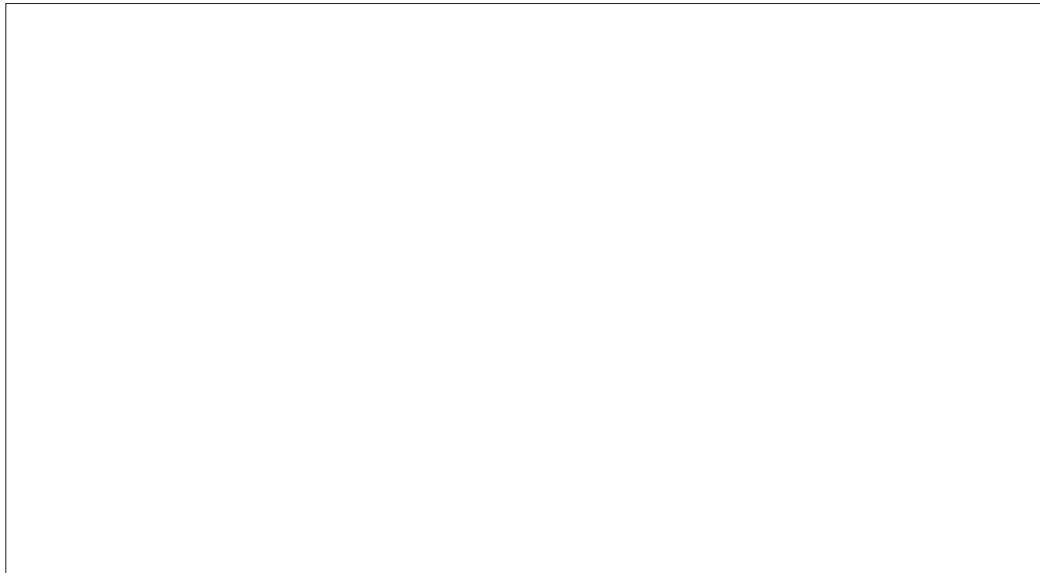
- (a) Tick the correct box to show whether or not each of the following is a process of glacial erosion.

	True	False
Abrasion	<input type="checkbox"/>	<input type="checkbox"/>
Plucking	<input type="checkbox"/>	<input type="checkbox"/>
Frost action	<input type="checkbox"/>	<input type="checkbox"/>

(3 marks)

- (b) Study **Figure 9**, on the insert, a photograph of a drumlin.

- (i) In the box below, draw and label the main features of the drumlin.

*(3 marks)*

- (ii) Complete the paragraph below to explain how a drumlin may be formed. Choose the correct words from this list.

smooths**uplands****eroded****lowlands****deposited****sharpens**

The ice erodes the land and transports material to the

As the ice melts, the boulder clay is in mounds, often

when the ice meets an obstacle in its flow. The ice the

drumlin as it flows over it.

(3 marks)

- (c) (i) Suggest **two** jobs for people working in the tourist industry in upland glaciated areas.

1

2

(2 marks)

- (ii) Explain why upland glaciated areas are used for farming and/or forestry.

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(4 marks)

Turn over for the next question

8 Coastal Landscapes and Processes**Total for this question: 15 marks**

- (a) Tick the correct box to show whether or not each of the following is a process of coastal erosion.

	True	False
Saltation	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic Power	<input type="checkbox"/>	<input type="checkbox"/>
Corrosion	<input type="checkbox"/>	<input type="checkbox"/>

(3 marks)

- (b) Study **Figure 2**, the Ordnance Survey map extract. Give **three** physical features of the coastline of the Isle of Portland.

- 1
- 2
- 3

(3 marks)

- (c) Chesil Beach has been formed partly as a result of longshore drift. In the box below, draw and label a diagram to show longshore drift.

(4 marks)

- (d) (i) Weymouth, shown on **Figure 2**, is a coastal holiday resort.
Suggest **two** problems caused by the large numbers of visitors to Weymouth.

1.....

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(2 marks)

- (ii) Describe how these problems could be solved in coastal holiday resorts.

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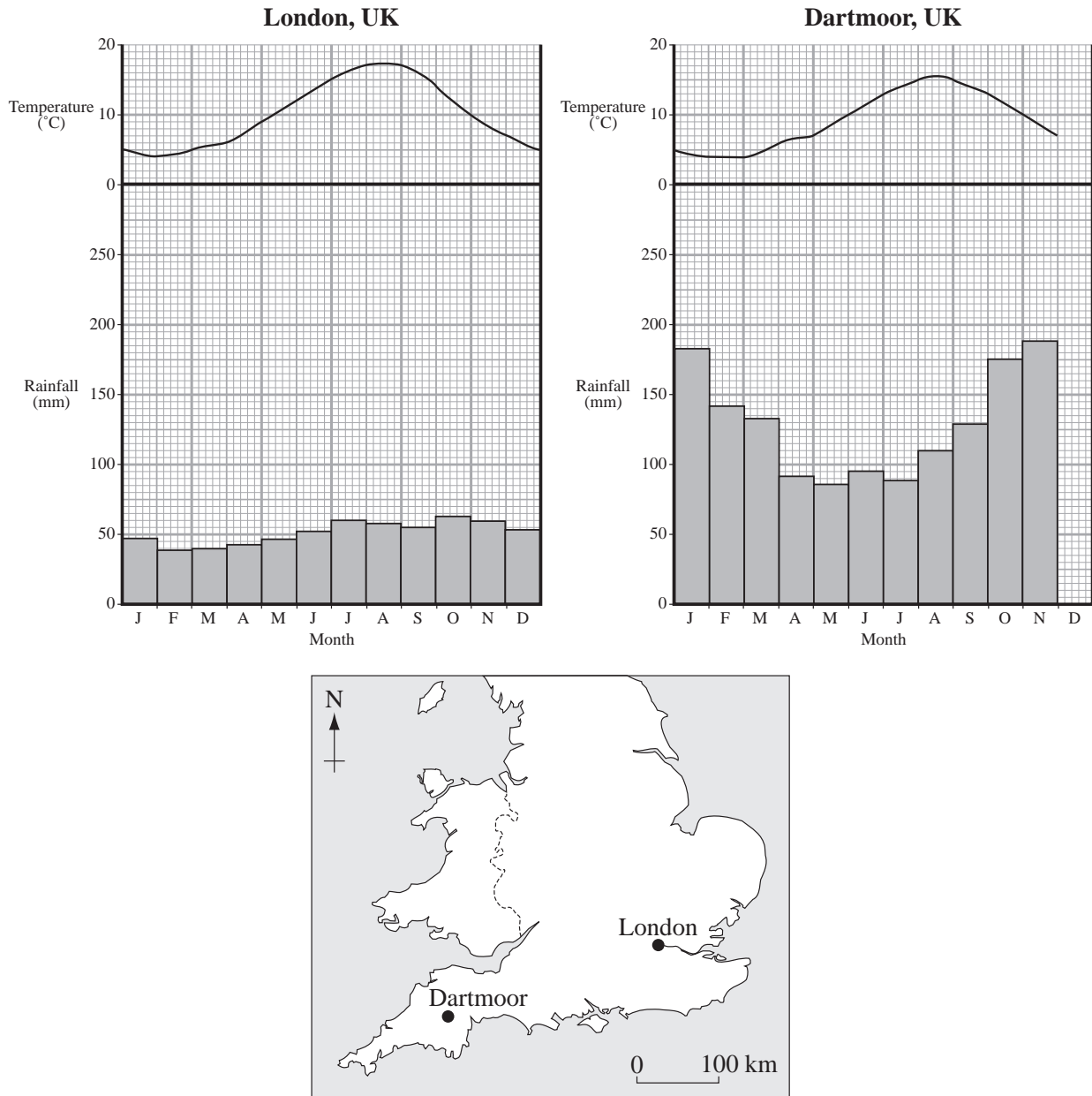
(3 marks)

15

Turn over for the next question

9 Weather and Climate

Total for this question: 15 marks

(a) Study **Figure 10** which shows climate graphs for London and Dartmoor in the UK.**Figure 10**

(i) Complete the graph for Dartmoor using the following figures.

December Figures for Dartmoor	
Temperature (°C)	5
Rainfall (mm)	210

(3 marks)

- (ii) Describe differences in temperature and rainfall between London and Dartmoor.

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(4 marks)

- (iii) Tick the correct box to show whether each of the following is **true** or **false** in explaining why the two climates are different.

	True	False
The effect of altitude	<input type="checkbox"/>	<input type="checkbox"/>
The effect of latitude	<input type="checkbox"/>	<input type="checkbox"/>
The effect of prevailing winds	<input type="checkbox"/>	<input type="checkbox"/>

(3 marks)

- (b) For an area you have studied, describe how the climate affects human activities.

Climate area.....

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(3 marks)

- (c) Give **two** features of the weather of a winter anticyclone.

1

2

(2 marks)

10 Ecosystems**Total for this question: 15 marks**

Figure 11 is a diagram of tropical rainforest.

Graphic: vegetation structure in the tropical rainforest
- not reproduced here due to third-party copyright constraints.

- (a) (i) Describe the characteristics of the vegetation of tropical rainforest.

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(4 marks)

- (ii) Tick the correct box to show whether or not each of the following would be found in the tropical rainforest.

	Found	Not Found
Hardwood trees, e.g. mahogany	<input type="checkbox"/>	<input type="checkbox"/>
Conifers, e.g. spruce	<input type="checkbox"/>	<input type="checkbox"/>
Drought resistant trees, e.g. baobab	<input type="checkbox"/>	<input type="checkbox"/>

(3 marks)

- (b) Give **two** reasons why large areas of tropical rainforest are being chopped down.

1

.....

2

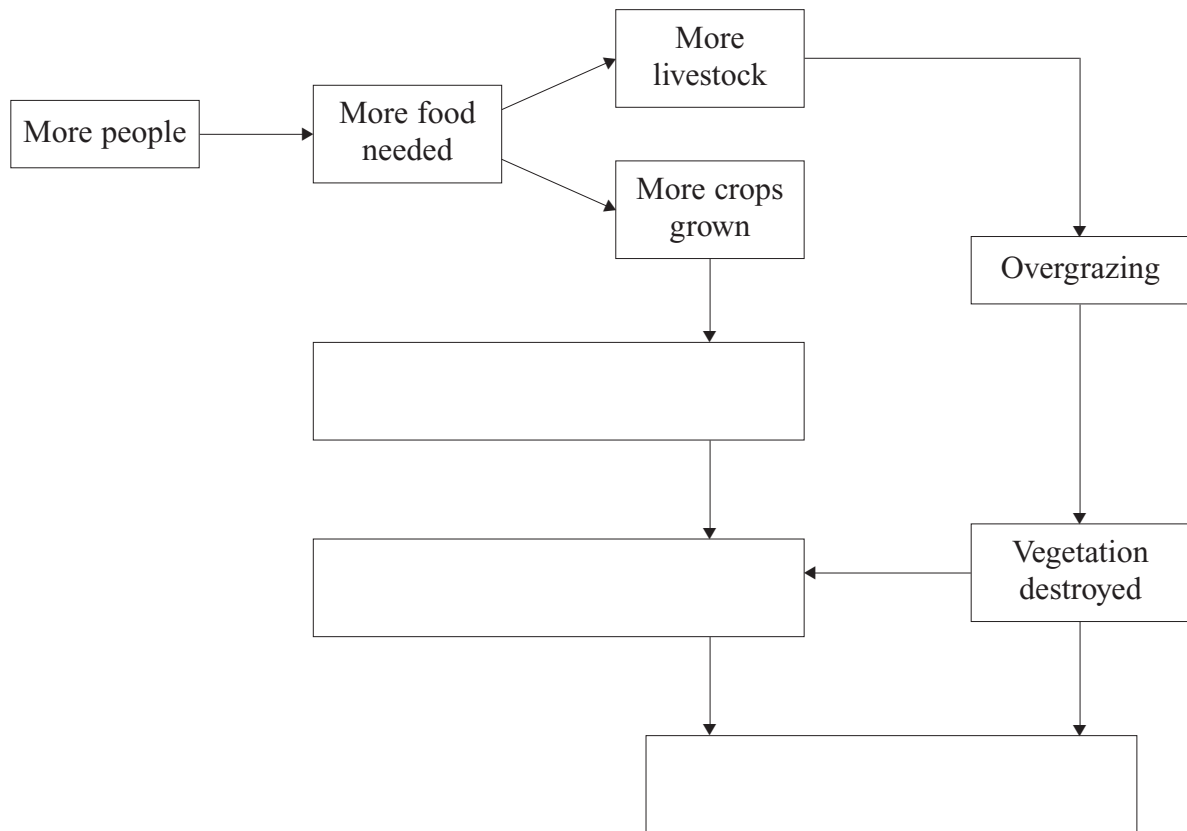
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(2 marks)

Question 10 continues on the next page

- (c) Study **Figure 12** which shows how an increase in population may affect savanna grassland.

Figure 12



- (i) Place the following words into the correct boxes in **Figure 12**.

soil erosion

over cultivation

desertification

(2 marks)

- (ii) What is desertification?

.....

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(1 mark)

- (iii) Explain how the problems caused by desertification may be reduced.

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(3 marks)

15

END OF QUESTIONS

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Question 4 Figure 5: www.nps.gov

Question 10 Figure 11: Adapted from C PARK, *Tropical Rainforests*, Routledge, 1992

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M/Jun07/3031/1F

GEOGRAPHY (SPECIFICATION A)

3031/1F & 3031/1H

Insert

Figure 1



Figure 3**Turn over ►**

Figure 6 Foundation Tier
Figure 5 Higher Tier



Figure 8 Foundation Tier
Figure 7 Higher Tier

Colour photograph: the effects of the floods in Boscastle in 2004
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Turn over ►

Figure 9 Foundation Tier
Figure 8 Higher Tier



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Question 6 Figure 8: Copyright © EMPICS
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