CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

GEOGRAPHY

0460/11

Paper 1

May/June 2012

1 hour 45 minutes

Candidates answer on the Question Paper.

Additional Materials: Ruler

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces provided.
Write in dark blue or black pen.
You may use a soft pencil for any diagrams, graphs or rough working.
Do not use staples, paper clips, highlighters, glue or correction fluid.
DO **NOT** WRITE ON ANY BARCODES.

Write your answer to each question in the space provided.
If additional space is required, you should use the lined page at the end of this booklet. The question number(s) must be clearly shown.

Answer **three** questions.

The Insert contains Photographs A, B, C and D for Question 2, and Photograph E for Question 5.
The Insert is **not** required by the Examiner.
Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

At the end of the examination, fasten all your work securely together.
The number of marks is given in brackets [ ] at the end of each question or part question.

For Examiner's Use	
Q1	
Q2	
Q3	
Q4	
Q5	
Q6	
Total	

This document consists of **25** printed pages, **3** blank pages and **1** Insert.

UNIVERSITY *of* CAMBRIDGE
International Examinations

[Turn over

QUESTION 1

1 **(a)** Study Fig. 1, which shows information about the population in four countries.

	Country	Total population (millions)	Birth Rate (per 1000)	Death Rate (per 1000)	Net Migration (per 1000)	Life Expectancy (years)
MEDCs	Germany	82	8.2	11.0	+2.19	79
	Spain	41	9.5	10.1	+0.99	80
LEDCs	Ethiopia	88	43.4	11.3	−0.02	56
	Ghana	24	28.1	8.9	+0.61	61

Fig. 1

(i) Which **one** of the countries shown in Fig. 1 has the smallest total population?

.... [1]

(ii) Calculate the natural population growth rate of Ghana.
Show your calculations below.

[2]

(iii) Identify from Fig. 1 the country where:

A people live the longest on average; ....

B the total population is increasing most rapidly; ....

C there is more emigration than immigration. .... [3]

(iv) Explain why life expectancy is high in MEDCs.

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(b) Study Fig. 2, which shows the growth rate of the world's population between 1950 and 2050 (predicted).

Fig. 2

(i) Describe the changes in the world population growth rate between 1950 and 2010. Refer to years and statistics in your answer.

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(ii) Describe and suggest reasons for the predicted change in world population growth.

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(c) For an example of international migration which you have studied, name the countries between which people moved.

Explain why many people made the decision to migrate. You should refer both to pull and to push factors.

Names of countries: From .... to ....

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END OF QUESTION 1

QUESTION 2

2 **(a)** Study Photographs A, B , C and D (Insert), which show land use zones in an urban area.

   (i) Describe **two** differences between the housing in Photographs B and C.

   1 ....

   ....

   2 ....

   ....[2]

   (ii) Redevelopment is replacing old buildings with new ones.
   Identify the photograph which shows redevelopment taking place.

   Photograph ....   [1]

   (iii) Give **three** different reasons why redevelopment has taken place in many urban areas.

   1 ....

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   2 ....

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   3 ....

   ....[3]

   (iv) Explain why redevelopment in urban areas may cause conflict.

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(b) Study Fig. 3, a model of urban land use.

Key

■	CBD
▦	factories / industry
▨	low class residential
⋯	medium class residential
▤	high class residential
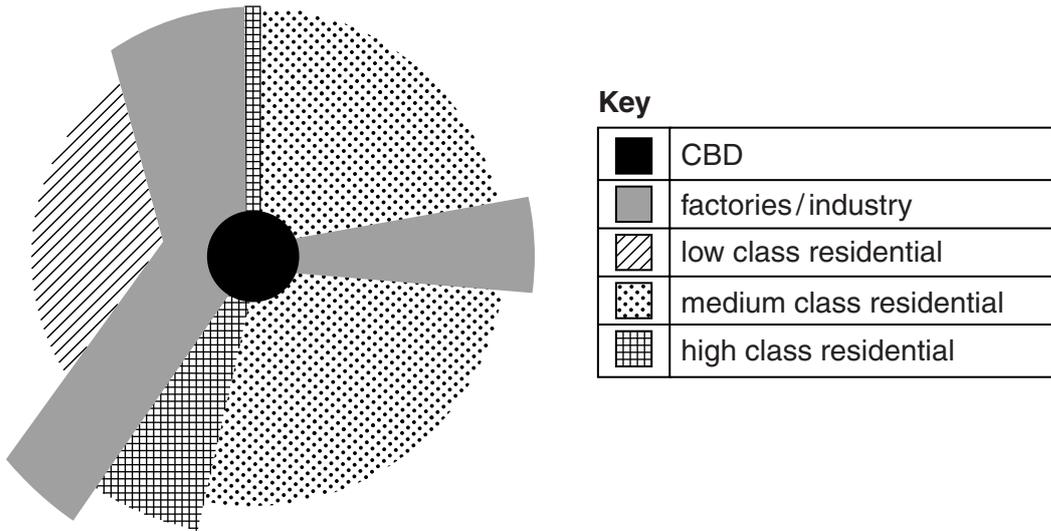
Fig. 3

(i) Describe and suggest reasons for the location of the industrial zone.

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....[3]

(ii) How relevant do you think the model shown in Fig. 3 is for describing urban land use? Explain your answer by referring to LEDCs and MEDCs.

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(c) In many LEDCs squatter settlements have grown up.

For a named example of an LEDC city, describe the main features of one of its squatter settlements.

Name of city ....

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END OF QUESTION 2

QUESTION 3

3 **(a)** Study Fig. 4, a map showing the drainage basin of the River Lee.

Fig. 4

For Examiner's Use
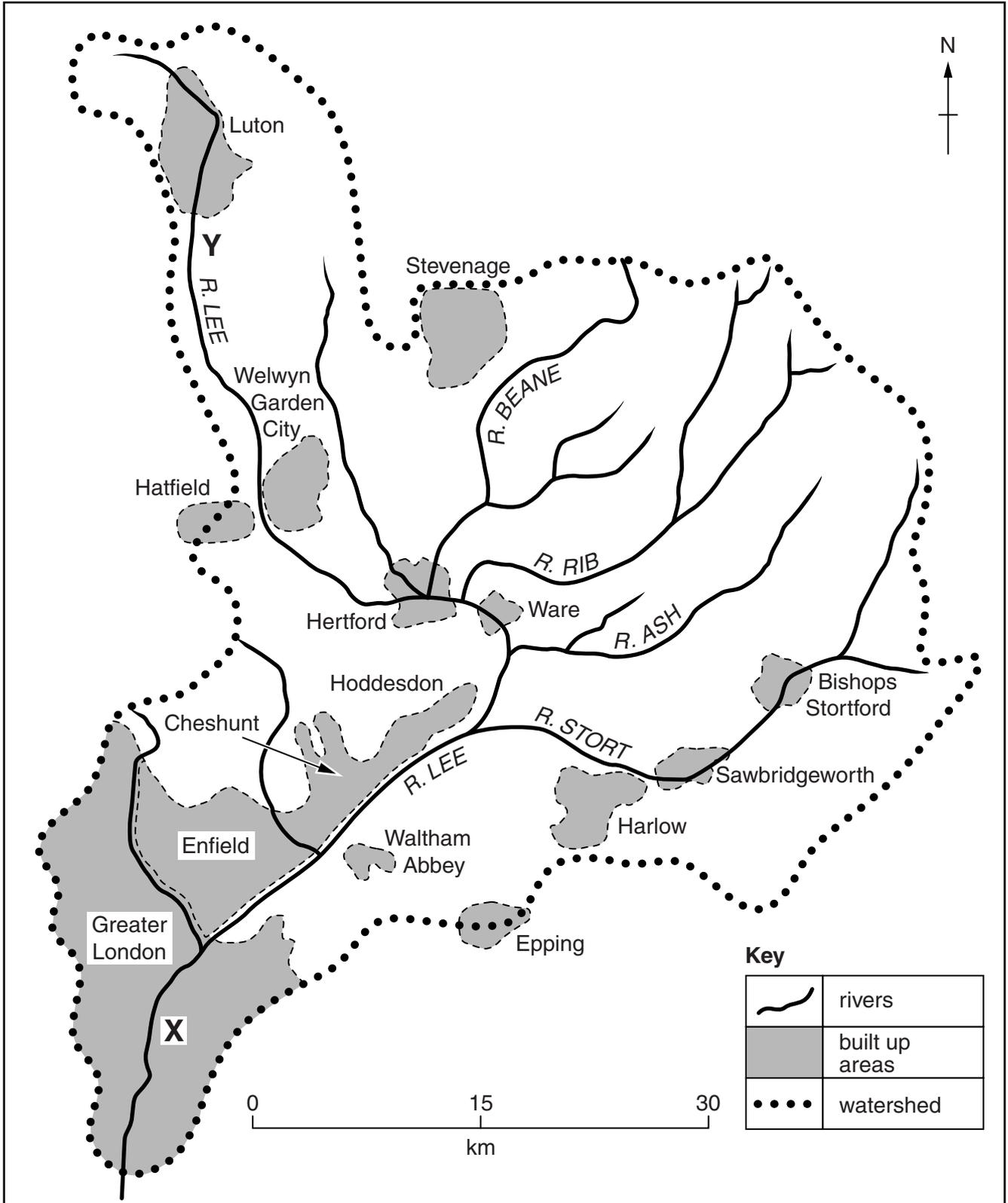
(i) Name a tributary of the River Lee.

.... [1]

(ii) Give **two** reasons why the amount of water in the river is greater at **X** than **Y**.

1 ....

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2 ....

....[2]

(iii) Suggest **three** likely differences between the shape of the river **valley** at **X** and at **Y**.

1 ....

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3 ....

....[3]

(iv) Explain how the River Lee might bring both benefits and problems for people who live in Hertford.

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(b) Study Fig. 5, a diagram showing a waterfall and gorge.
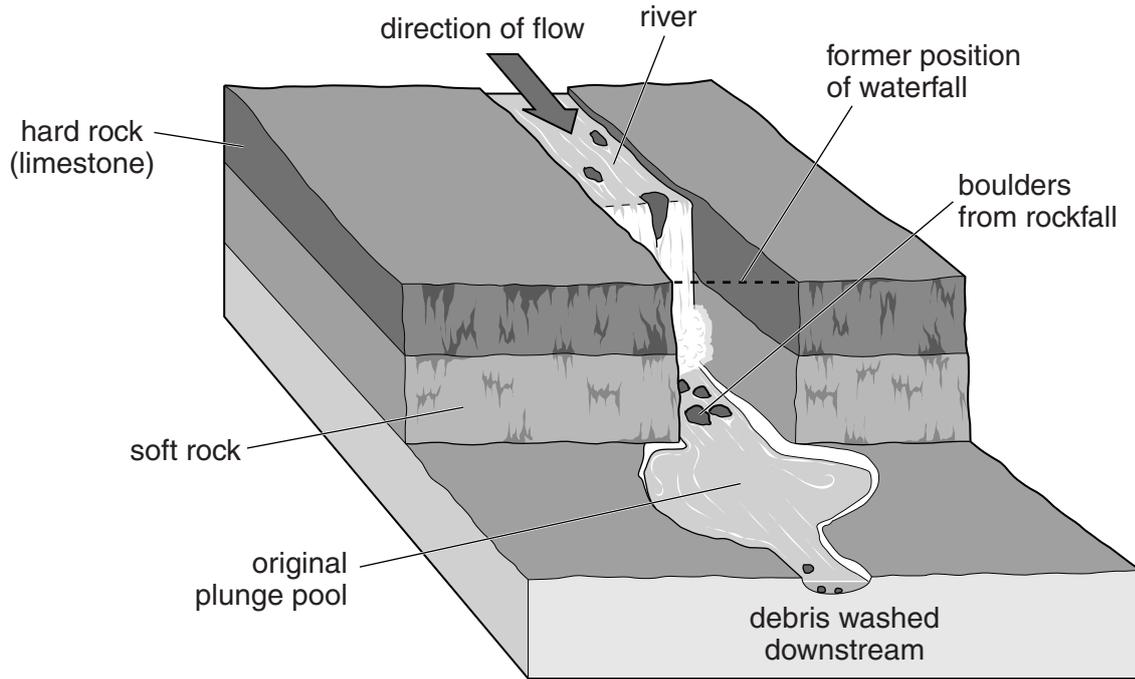
Fig. 5

(i) The river is eroding by hydraulic action, corrasion (abrasion) and corrosion. Define each of these terms.

Hydraulic action ....

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Corrasion (abrasion) ....

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Corrosion ....

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.... [3]

(ii) Explain how the waterfall and gorge shown in Fig. 5 have been formed.

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(c) Explain how an oxbow lake is formed. You should include fully labelled diagram(s).

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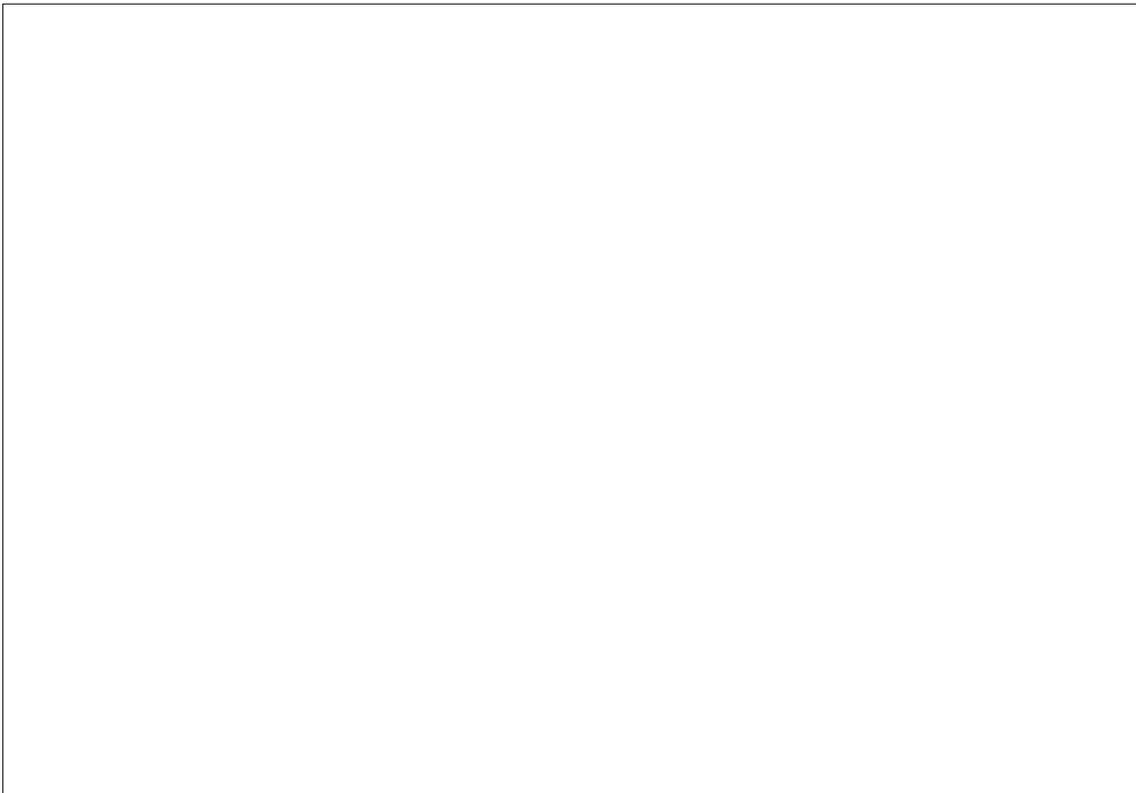
[7]

END OF QUESTION 3

QUESTION 4

4 **(a)** Study Fig. 6, which shows major plates and the location of fold mountains.

Key

| | plate boundary | → | direction of plate movement | *Alps* | fold mountain range |
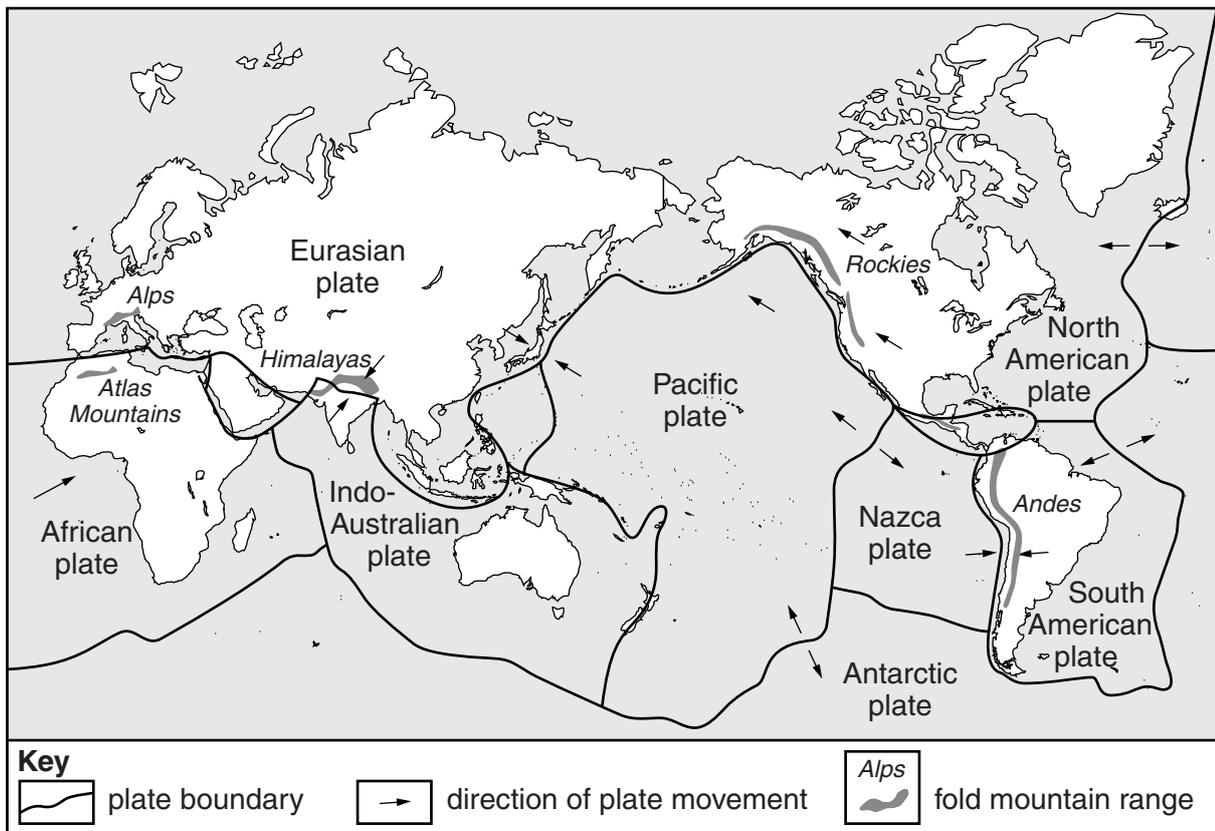
Fig. 6

(i) Use Fig. 6 to identify the fold mountains which are along the boundary between the Eurasian and Indo-Australian plates.

.... [1]

(ii) Explain how fold mountains have been formed along this collision boundary.

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....[2]

(iii) Name the type of plate boundary between the following plates:

A Nazca plate and South American plate; ....

B Antarctic plate and Pacific plate; ....

C North American plate and Pacific plate. .... [3]

(iv) Describe the processes which occur at convergent (destructive) plate boundaries to cause volcanic eruptions.

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(b) Study Fig. 7, which shows information about earthquakes in the Caribbean.

Caribbean earthquakes
Selected notable tremors showing year
of occurence, magnitude and epicentre
location in the Caribbean region since 1900.

Key

- - - - - - plate boundary

Fig. 7

(i) Explain why many earthquakes have occurred in the area shown in Fig. 7.

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(ii) Many countries in the area shown in Fig. 7 are LEDCs.
Explain why earthquakes often have devastating effects in LEDCs.

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(c) For a named example which you have studied, explain why people live close to a volcano.

Name of volcano ....

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END OF QUESTION 4

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TURN OVER FOR QUESTION 5

QUESTION 5

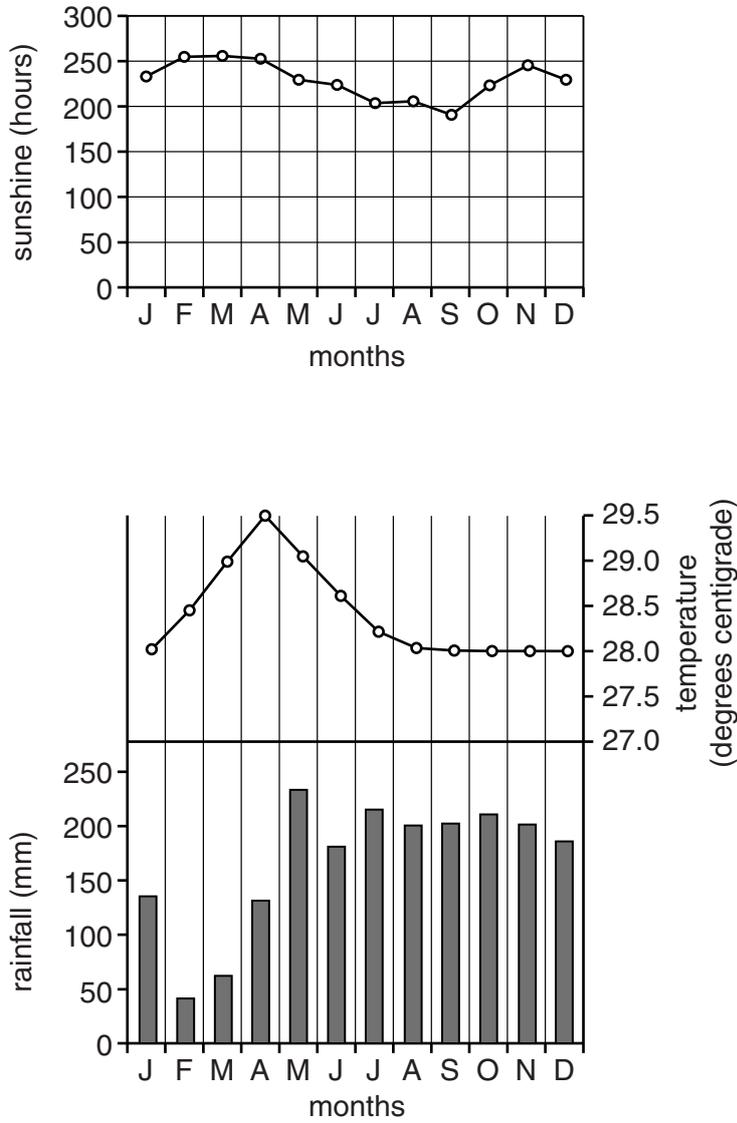**5 (a)** Study Fig. 8, information about the climate of the Maldives (a tourist destination in the Indian Ocean).

Fig. 8

(i) Identify the month which has the lowest rainfall.

.... [1]

(ii) What is the annual range of temperature?
Show your calculations below.

[2]

(iii) Use **only** the information in Fig. 8 to explain why tourists are attracted to the Maldives all year round.

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(iv) Study Photograph E (Insert) which was taken in the Maldives.
Using **only** evidence from the photograph, explain why many tourists find such destinations attractive.

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 [Turn over

(b) Study Fig. 9, information about the average number of tourist arrivals in the Maldives.

Fig. 9

(i) Compare the number of tourist arrivals in June and November in the Maldives. You should refer to statistics in your answer.

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(ii) Suggest how the tourist industry benefits and disadvantages the **people** living in the Maldives.

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(c) For a named area which you have studied, explain how tourism is damaging the **natural environment**.

Name of area ....

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END OF QUESTION 5

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QUESTION 6

6 **(a)** Study Fig. 10, information about an area where the land is used for commercial farming around the village of Canicatti in Sicily. (Sicily is part of Italy, an MEDC).
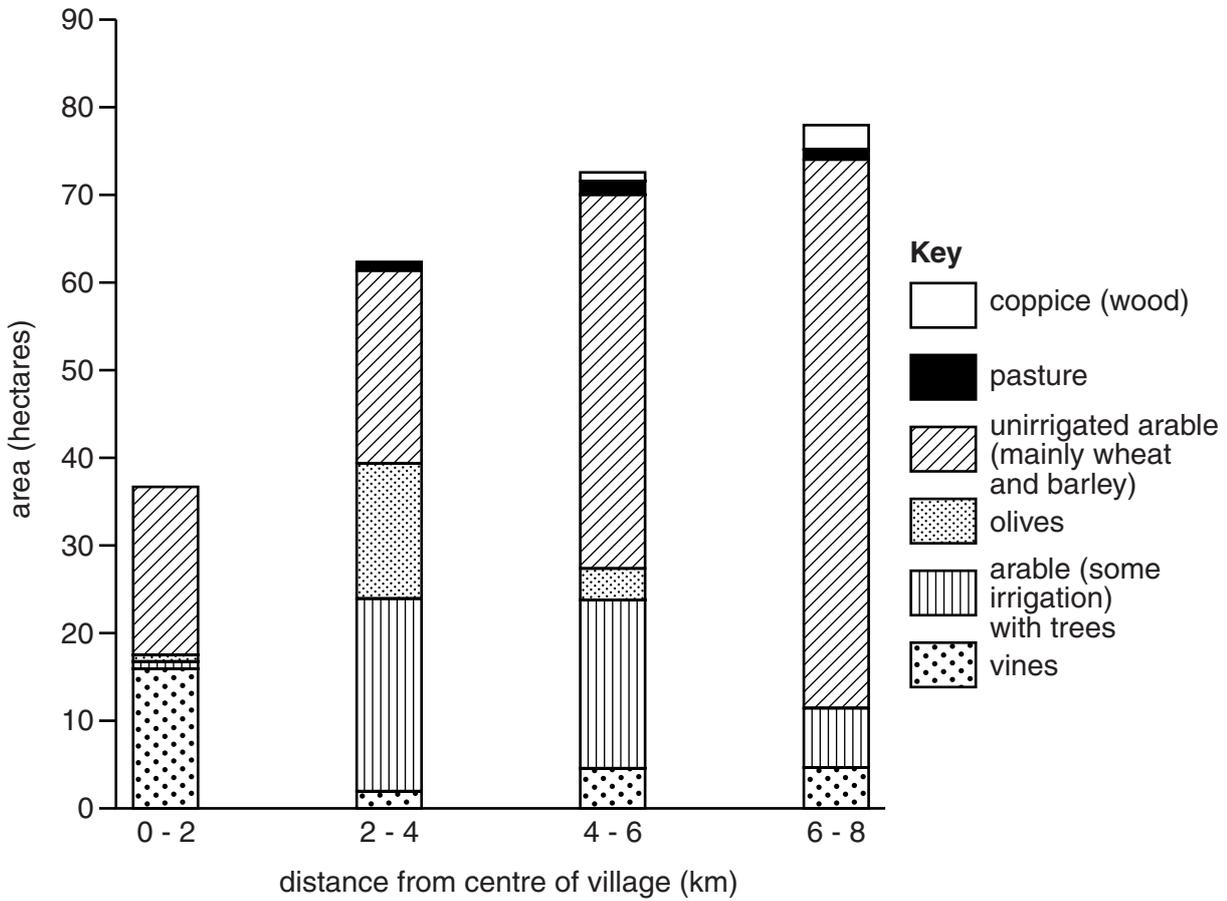

Fig. 10

(i) What is meant by *commercial* farming?

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....[1]

(ii) Describe **two** differences between the land use between 0 and 2 kilometres from the centre of the village and between 6 and 8 kilometres from the centre of the village.

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(iii) Using examples from Fig. 10, suggest reasons to explain why a farmer may use the land in different ways as distance from the village increases.

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(iv) Give **four** examples of physical factors which affect how farmers use their land.

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(b) Study Fig. 11, which shows an area in an MEDC where commercial farming is taking place.

chemical spraying

removing field boundaries

spreading fertilizer

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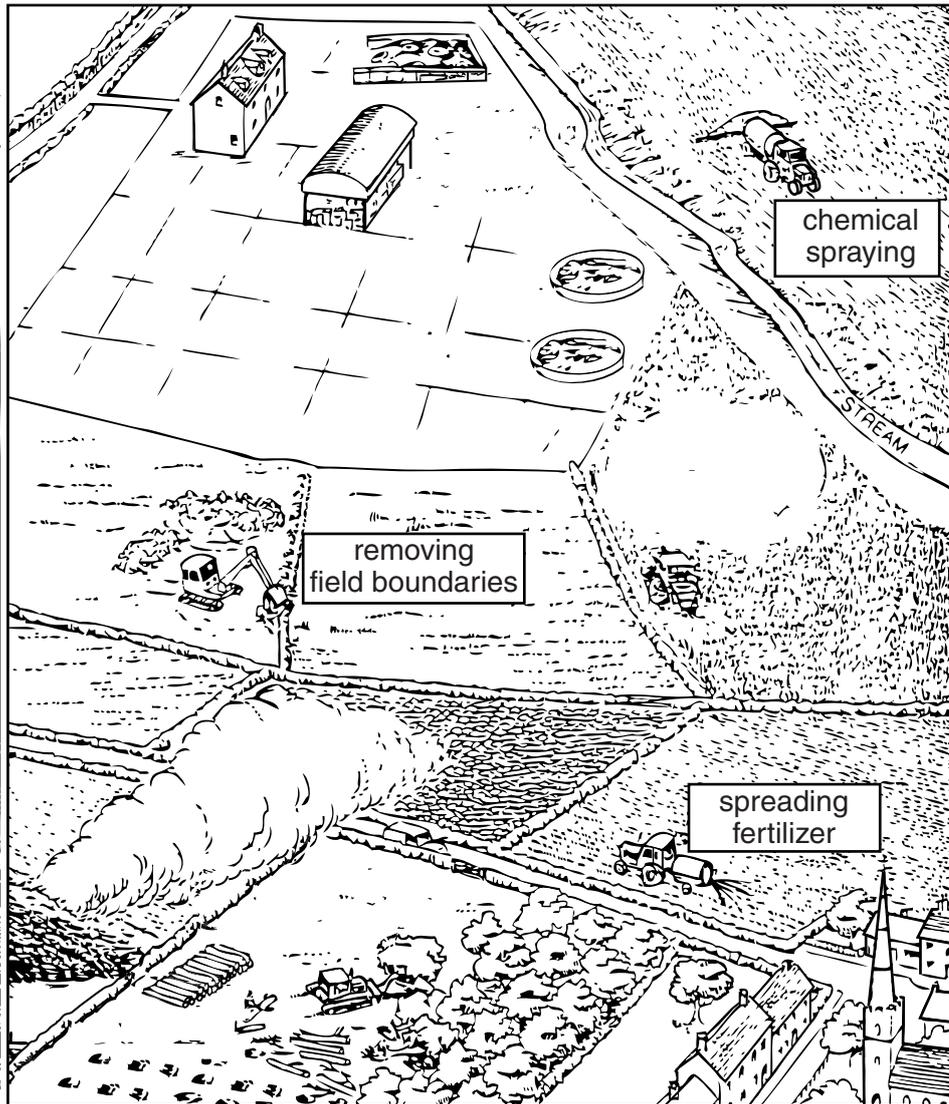
Fig. 11

   (i) Explain why farmers carry out each of the three activities which are labelled on Fig. 11.

   Removing field boundaries ....

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   Chemical spraying ....

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   ....

   Spreading fertilizer ....

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(ii) Use Fig. 11 and your own knowledge to explain how farming damages the environment.

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(c) For an example of small-scale subsistence farming at a named location which you have studied, describe the farming processes.

Location of small scale subsistence farming ....

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END OF QUESTION 6

Additional Page

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