



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
International General Certificate of Secondary Education

CANDIDATE  
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**GEOGRAPHY**

**0460/13**

Paper 1

**October/November 2011**

**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 Fig. 4 for Question 2, Photographs A, B, C and D for Question 3 and Photograph E for Question 6.

Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

The Insert is **not** required by the Examiner.

The number of marks is given in brackets [ ] at the end of each question or part question.

This document consists of **23** printed pages, **1** lined page and **1** Insert.



QUESTION 1

(a) Study Fig. 1, which shows information about the population of Denmark (an MEDC) between 1970 and 2006.

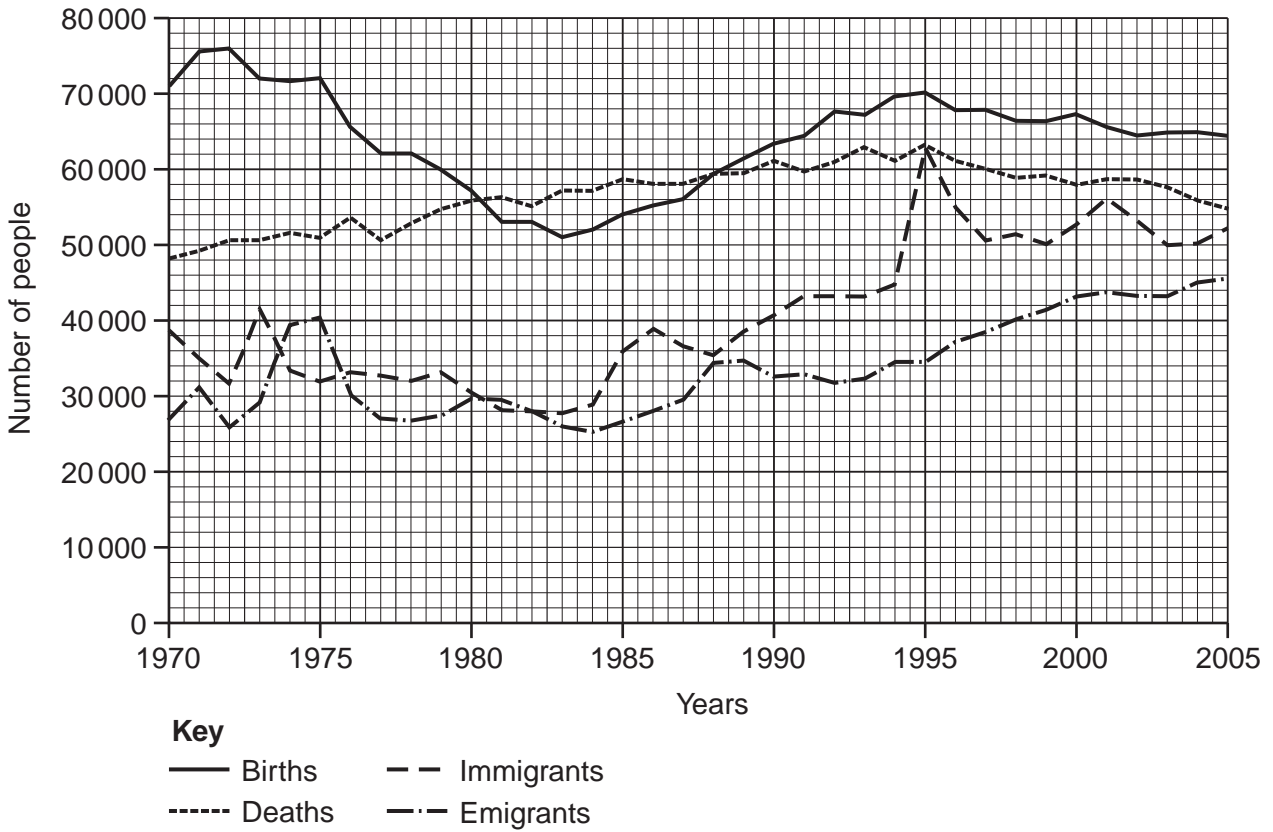


Fig. 1

(i) What was the number of births in Denmark in 1970? .....[1]

(ii) Use evidence from Fig. 1 to identify a year when:

A there were more births than deaths, .....

B there were more emigrants than immigrants. ....[2]

(iii) Calculate the total population change in Denmark in 2005. Show your calculations.

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.....[3]



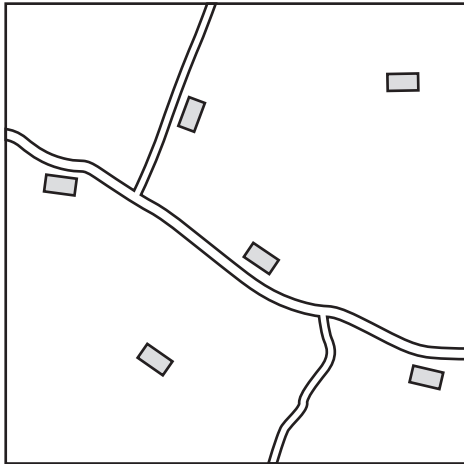




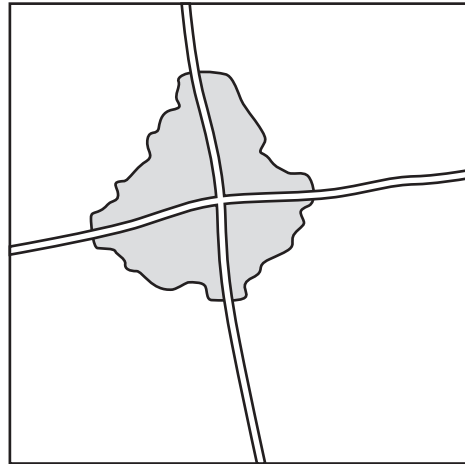
**QUESTION 2**

(a) Study Fig. 3, which shows maps of four rural settlements.

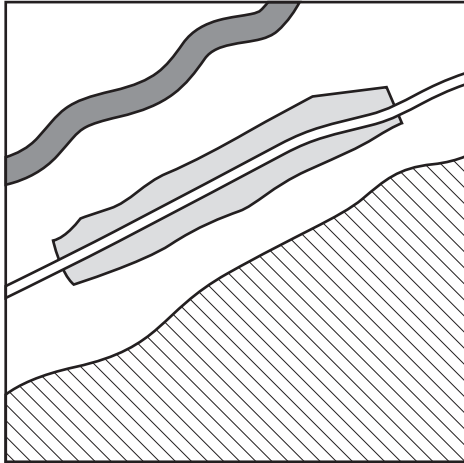
**Settlement A**



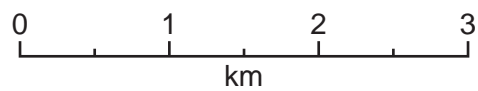
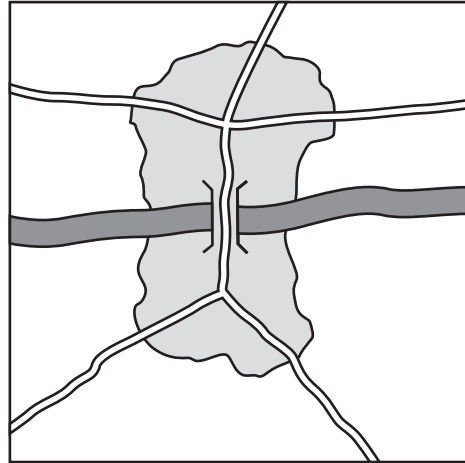
**Settlement B**







**Settlement C**



**Settlement D**



**Key**

-  Buildings / built-up area
-  Steep slope
-  River
-  Road

**Fig. 3**

(i) Settlement A is an area of dispersed rural settlement. What is meant by a *dispersed* settlement pattern?

.....

.....[1]

(ii) Describe the shapes of settlements **B** and **C**.

Settlement **B** .....  
.....

Settlement **C** .....  
..... [2]

(iii) Suggest reasons for the different shapes of settlements **B** and **C**.

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..... [3]

(iv) Suggest reasons why settlement **D** has developed into a large settlement.

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..... [4]

(b) Study Fig. 4 (Insert), which shows a rural area in Tanzania (an LEDC).

(i) Describe **three** features of the distribution of rural settlement in the area shown by Fig. 4.

1 .....

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2 .....

.....

3 .....

.....[3]

(ii) Suggest reasons for the distribution of rural settlement in the area shown by Fig. 4.

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.....[5]

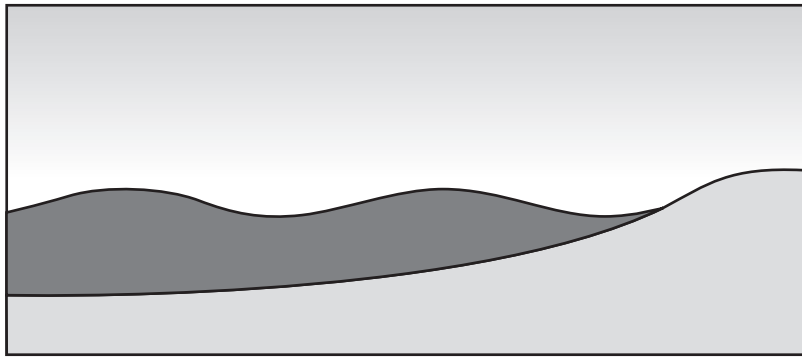




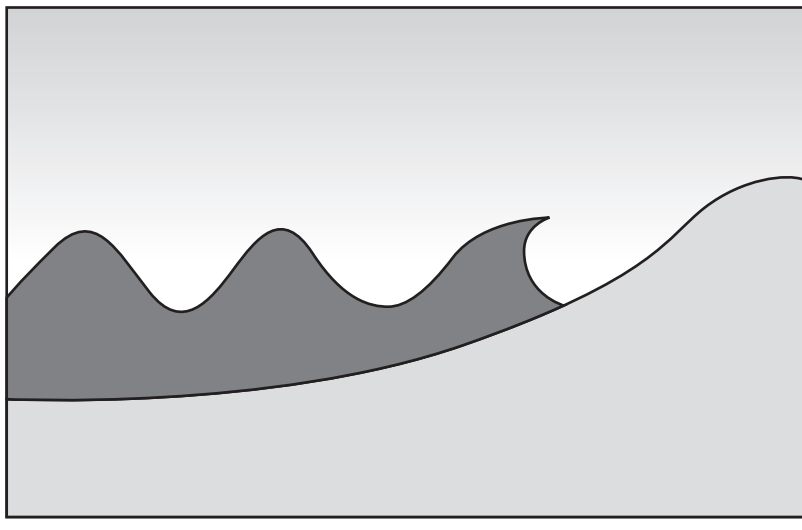


(b) Study Fig. 5, showing constructive and destructive waves.

**Constructive waves**



**Destructive waves**



**Fig. 5**

(i) Describe **three** differences between constructive and destructive waves.

- 1 .....
  - .....
  - 2 .....
  - .....
  - 3 .....
  - .....
- [3]

(ii) Explain how corrasion, corrosion and hydraulic action may erode an area of

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[5]

(c) Describe the impacts of a natural hazard on a named coastal area which you have studied.

Hazard ..... Named coastal area .....

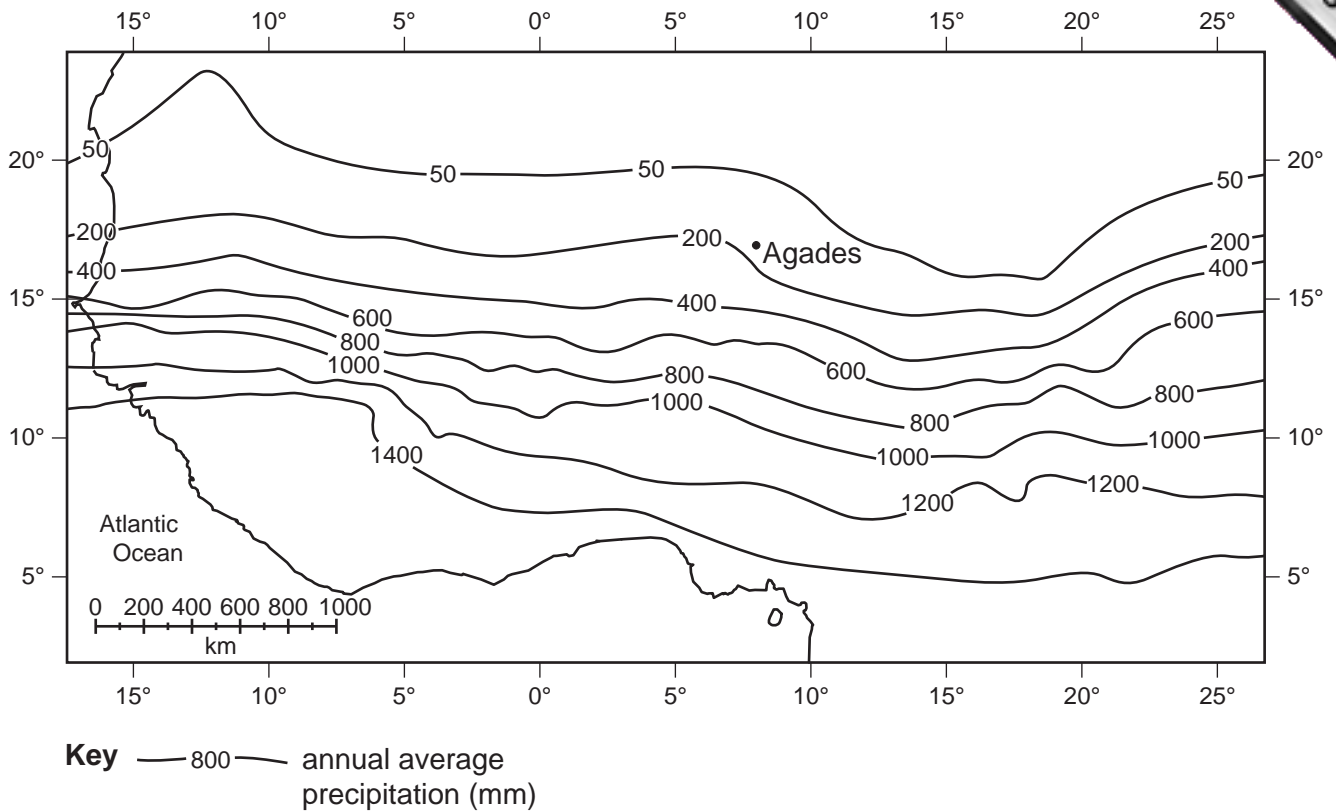
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[Total: 25 marks]

**QUESTION 4**

**(a)** Study Fig. 6, which shows annual average precipitation in west Africa.



**Fig. 6**

**(i)** Estimate the annual average precipitation at Agades.

..... mm [1]

**(ii)** Suggest why daytime temperatures are high at Agades.

.....  
.....  
..... [2]

**(iii)** Explain why rainfall is low in areas such as Agades.

.....  
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..... [3]



(iii) The area around Agades is at risk from desertification. This can be defined as 'the spread of desert-like conditions into nearby regions'. Explain why desertification occurs.

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[5]

(c) For a named area of tropical desert which you have studied, describe the features of the natural vegetation and explain how it can survive in the desert climate.

Tropical Desert studied .....

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[7]

[Total: 25 marks]

QUESTION 5

(a) Study Fig. 8, which shows information about food production in selected countries.

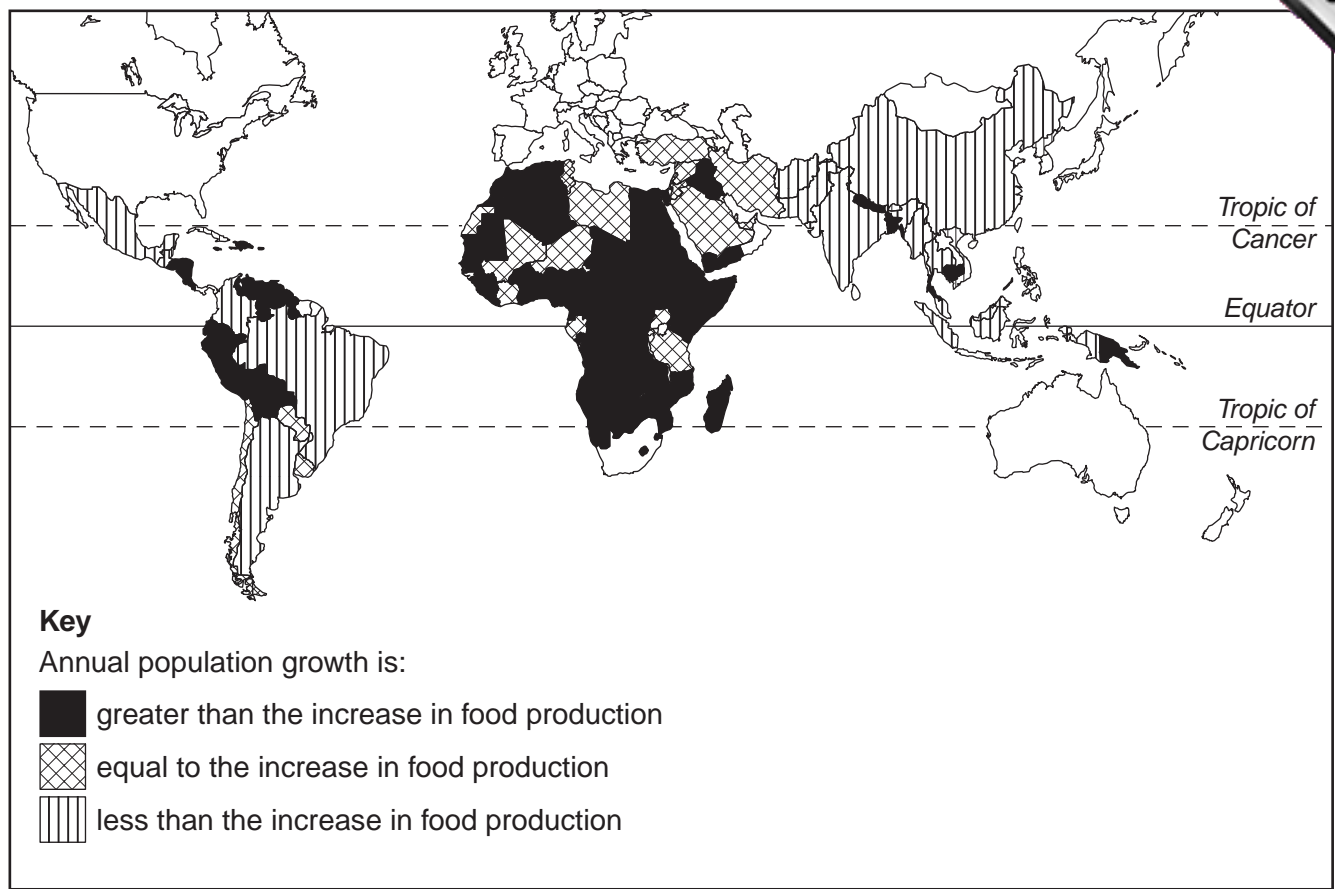


Fig. 8

(i) Name **one** country where population growth is greater than the increase in food production.

.....[1]

(ii) Give **two** natural factors which cause food shortages.

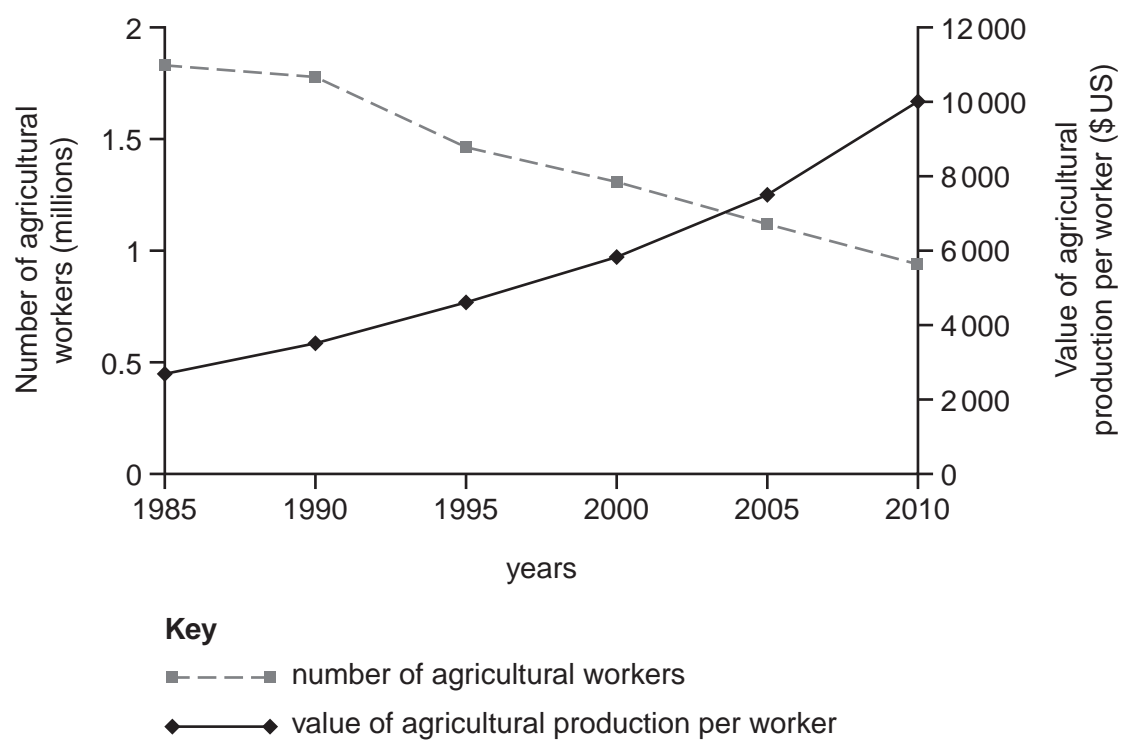
1 .....

2 .....[2]





(b) Study Fig. 9, which shows information about changes in agriculture in Malaysia between 1985 and 2010.



**Fig. 9**

(i) Describe the changes in employment in agriculture in Malaysia between 1985 and 2010. You should refer to data from Fig. 9.

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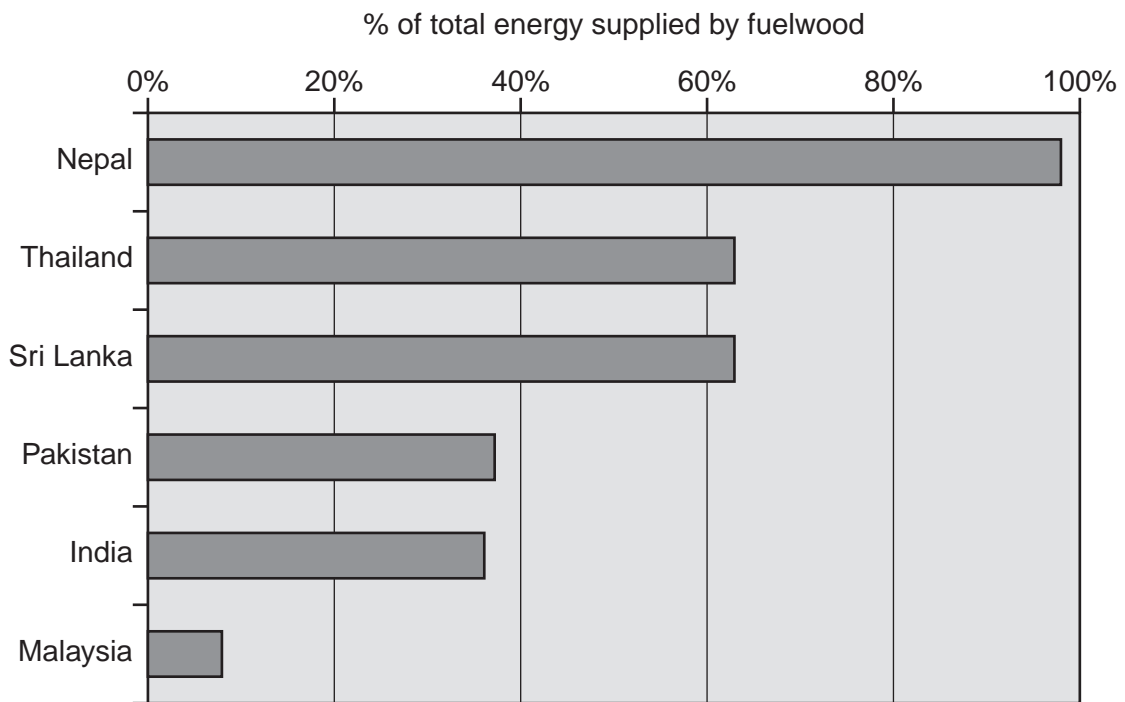
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[3]



**QUESTION 6**

(a) Study Fig. 10 which shows information about the use of fuelwood in six countries in Photograph E (Insert) shows fuelwood being collected.



**Fig. 10**

(i) Which country shown on Fig. 10 uses the largest percentage of fuelwood to supply energy?

.....[1]

(ii) Give **two** different uses of fuelwood in LEDCs.

1 .....

2 .....[2]

(iii) Describe the problems of using large amounts of fuelwood for:

**A** people who live in LEDCs,

.....  
.....  
.....  
.....  
.....[3]

**B** the local natural environment.

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.....[4]

(b) Study Fig. 11, which shows information about global warming.

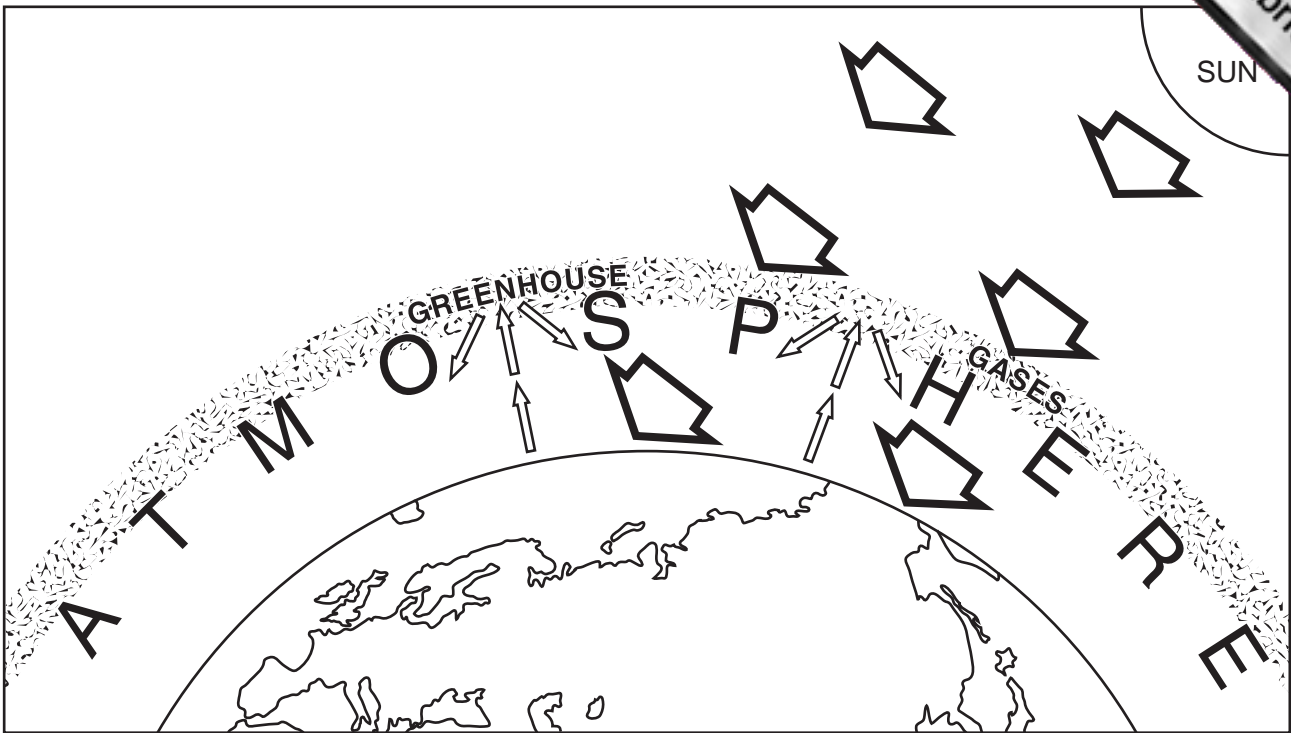


Fig. 11

(i) Using only information from Fig. 11, explain how the build up of greenhouse gases in the atmosphere is increasing global warming.

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.....[3]



**Additional Page**

If you use the following lined page to complete the answer(s) to any question(s), the question number must be clearly shown.

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**Copyright Acknowledgements:**

- Question 1 Fig. 2 © David Waugh; *Geography: An integrated Approach*; Nelson Thornes; 2000.
- Question 4 Fig. 6 © <http://www.unu.edu/unupress/unupbooks/80422e/80422E02.htm>; 3 August 2010.
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