



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
International General Certificate of Secondary Education

CANDIDATE  
NAME

CENTRE  
NUMBER

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**GEOGRAPHY**

**0460/12**

Paper 1

**October/November 2012**

**1 hour 45 minutes**

Candidates answer on the Question Paper.

Additional Materials:     Ruler  
                                     Protractor

**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 Photograph A for Question 3, Photograph B for Question 5 and Photograph C for Question 6.  
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.

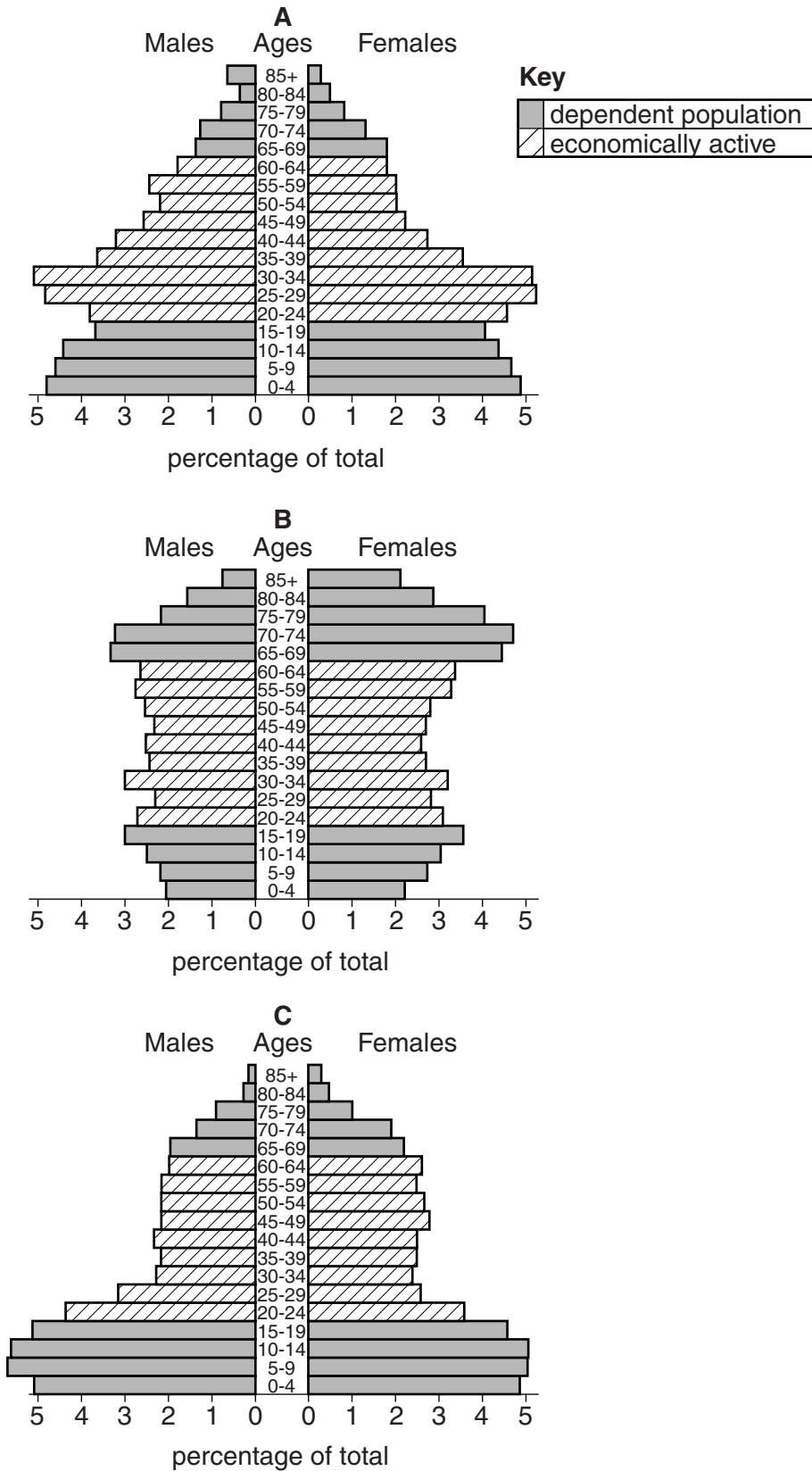
For Examiner's Use	
<b>Q1</b>	
<b>Q2</b>	
<b>Q3</b>	
<b>Q4</b>	
<b>Q5</b>	
<b>Q6</b>	
<b>Total</b>	

This document consists of **26** printed pages, **2** blank pages and **1** Insert.



**QUESTION 1**

- (a) Study Fig. 1, population pyramids which show the structure of the population for three towns in an MEDC in Europe.



**Fig. 1**

(i) What is meant by the *structure* of a population?

.....  
.....  
..... [1]

(ii) Define the terms *dependent population* and *economically active* as used in the key for Fig. 1.

Dependent population .....

.....

.....

Economically active .....

.....

..... [2]

(iii) Which of the population pyramids shows:

- a town on the coast to which many elderly people migrate when they retire;  
.....
  - a town where birth rates are high, but from which many young adults leave to find work elsewhere;  
.....
  - a growing town to which many young families have moved?  
.....
- [3]

(iv) Describe the differences in the dependent populations of the towns shown by the population pyramids **A** and **B**. Use data in your answer.

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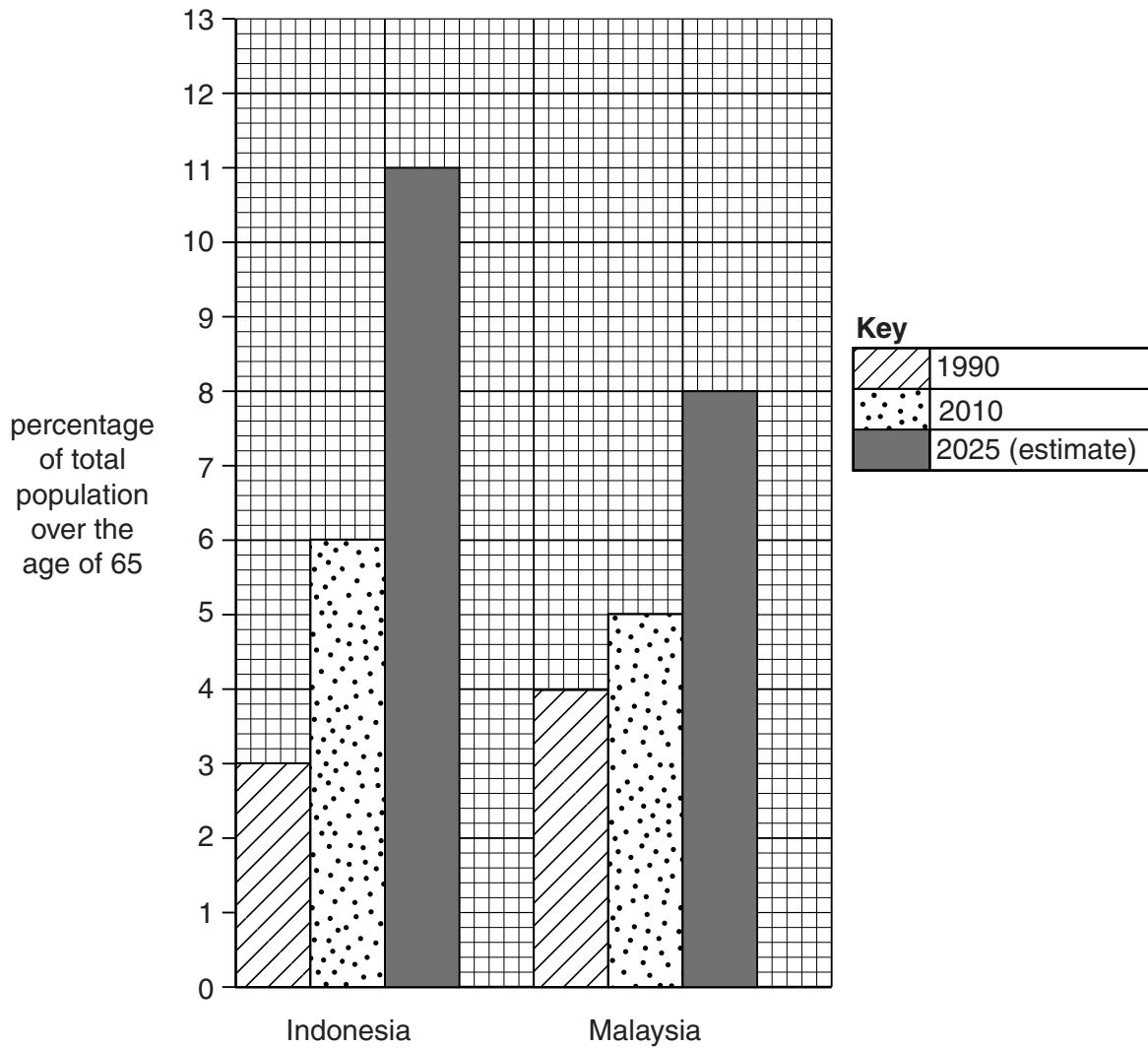
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(b) Study Fig. 2, which shows changes in the percentage of population over the age of 65 in Indonesia and Malaysia (countries in South East Asia).

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**Fig. 2**

(i) Compare the percentage of the population over the age of 65 in Indonesia and Malaysia in 1990 and 2010. Use data in your answer.

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..... [3]

- (ii) Suggest reasons for the large increase in the percentage of the population over the age of 65 which is expected in Indonesia and Malaysia by 2025.

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- (c) For a named country which you have studied, describe the problems caused by an ageing population.

Name of country .....

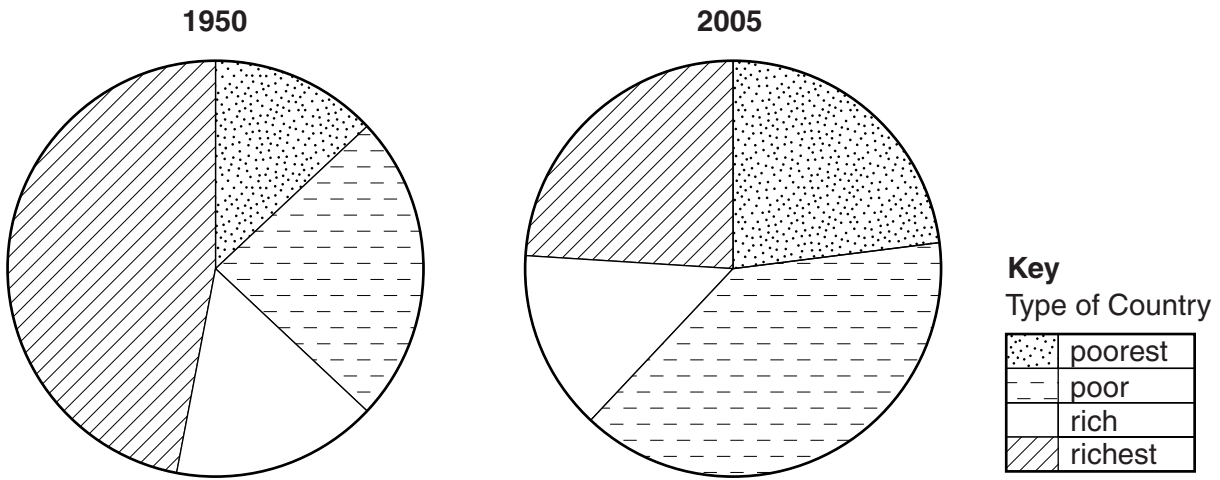
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[Total: 25 marks]

**END OF QUESTION 1**

**QUESTION 2**

(a) Study Fig. 3, which shows information about the world's urban population in 1950 and 2005.



**Fig. 3**

(i) What percentage of the world's urban population lived in the richest countries in 2005?

.....% [1]

(ii) Using evidence from Fig. 3 only, identify **two** changes in the world's urban population between 1950 and 2005.

1 .....

.....

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2 .....

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..... [2]

(iii) Describe **three** different pull factors of urban areas in the poorest countries (LEDGs) for people who live in rural areas.

1 .....

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2 .....

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3 .....

..... [3]

(iv) The increasing percentage of people living in urban areas is known as urbanisation. Describe the impacts of urbanisation on the natural environment.

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(b) Study Fig. 4, which shows information about an LEDC city.

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Zone	Central Business District	inner city	outer suburbs	urban fringe
Land Use	offices, entertainment, shops	good quality housing, open spaces	poor quality housing	squatter settlements, industries
Building density	very high building density	low building density	high building density	very high building density
Amenities	100% supplied with water, sewerage, electricity	100% supplied with water, sewerage, electricity	60% with piped water and sewerage, 70% with electricity	5% with piped water, 5% with sewerage, 15% with electricity

Fig. 4

(i) Describe **three** changes in the housing and amenities along the transect X-Y between the inner city and the urban fringe.

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

- (ii) Explain why many newly arrived migrants to cities in LEDCs live in squatter settlements.

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- (c) For a named town or city in an LEDC, describe what has been done to improve the quality of life for the people who live in squatter settlements.

Name of town or city .....

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[Total: 25 marks]

**END OF QUESTION 2**

**QUESTION 3**

**(a)** Study Photograph A (Insert), which shows Pico Viejo, an active volcano in Tenerife.

**(i)** What is meant by *active* volcano?

.....  
.....  
..... [1]

**(ii)** Using only evidence from Photograph A, describe **two** features of the volcano shown.

1 .....  
.....  
2 .....  
..... [2]

**(iii)** Briefly describe the global distribution of volcanoes.

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..... [3]

(b) Study Fig. 5, information about the impacts of a volcanic eruption in Iceland.

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<p><b>Iceland's volcanic eruption benefits tourism</b>                      <b>25<sup>th</sup> April 2010</b></p> <p>Iceland's latest volcanic eruption is coming to an end and the unexpected tourist boom that lifted this country's financial fortunes may be ending too.</p> <p>Last month, the Eyjafjallajokull volcano began erupting again after almost 200 years, threatening floods and earthquakes but drawing thousands of adventurous tourists to the site where ash and red-hot lava was coming from a crater between two glaciers.</p> <p>Thousands of people have made the trip to the volcano, 120 kilometres east of Reykjavik, since the eruption began on March 20<sup>th</sup>. Many people have made a small fortune taking them there, by bus, snowmobile, "superjeep" and even helicopter.</p> <p>Charter airline Iceland Express says its business has risen by 20% since the eruption, and the Icelandic Tourist Board says 26 000 overseas visitors came to the country in March, a record for a quiet month when it is still winter in Iceland.</p>
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**Fig. 5**

(i) Explain how the eruption of the Eyjafjallajokull volcano benefitted the Icelandic tourist industry.

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..... [3]

(ii) In what ways, other than tourism, may people benefit from living close to a volcano?

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(iii) Explain how volcanic eruptions can cause problems for people.

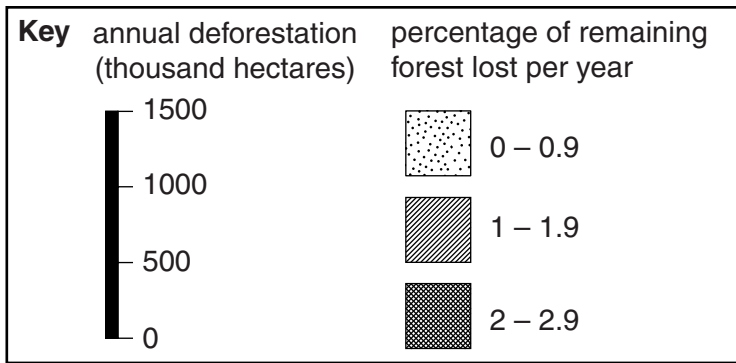
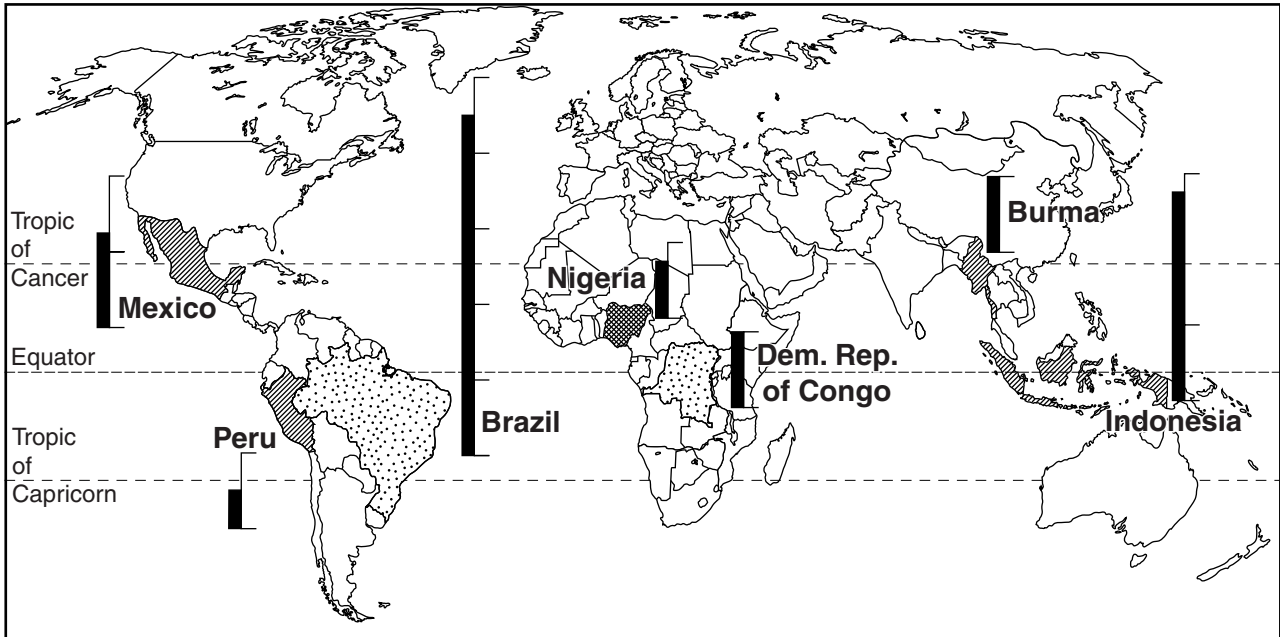
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**QUESTION 4**

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(a) Study Fig. 6, which shows information about deforestation in selected countries.



**Fig. 6**

(i) Rank the following countries in order of annual deforestation. Rank from highest to lowest.

Brazil	Burma	Indonesia	Mexico
.....			
.....			
.....			
.....			

High

Low

[1]

(ii) Name the **two** countries shown in Fig. 6 which have the lowest percentage of remaining forest lost per year.

1 ..... 2 ..... [2]

(iii) Give **three** different reasons why large amounts of deforestation have occurred in the tropical rainforests.

1 .....  
.....  
.....

2 .....  
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3 .....  
.....  
..... [3]



(b) Study Fig. 7, an article about the impacts of deforestation.

For  
Examiner's  
Use

The Amazon Basin still contains more than a third of the world's remaining rainforest, but deforestation has become a major problem. About 20% of the rainforest has already been destroyed. Huge areas of rainforest disappear each year and every day plants and animals are killed. Some species are becoming extinct. Where the forest has been cleared the land is open to soil erosion. The consequences of deforestation are far-reaching and affect global climate by adding to global warming.

**Fig. 7**

(i) Explain how deforestation can kill plants and animals.

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..... [3]

(ii) Explain why deforestation may cause soil erosion.

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(iii) Suggest how the tropical rainforest can be developed in a sustainable way.

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(c) For a named area of tropical rainforest which you have studied, describe and explain the characteristics of its climate.

Name of area of tropical rainforest .....

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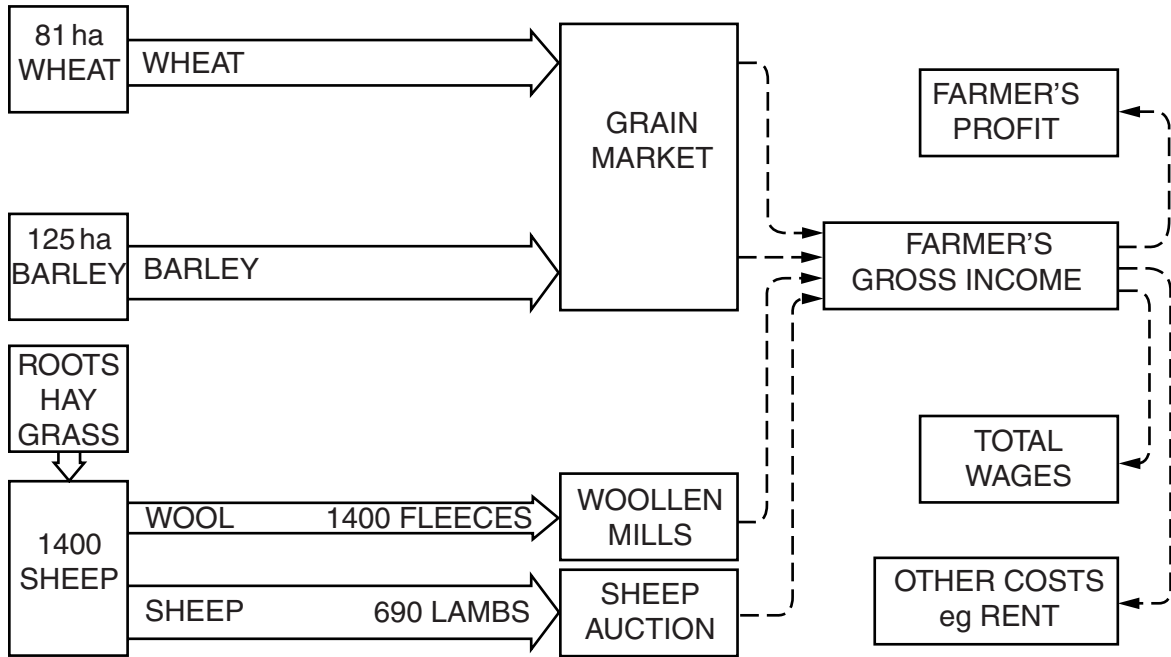
[Total: 25 marks]

**END OF QUESTION 4**

**QUESTION 5**

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(a) Study Fig. 8, a flow diagram which shows a commercial farm in an MEDC.



**Fig. 8**

(i) What is meant by the term *commercial farm*?

.....  
 .....  
 ..... [1]

(ii) Identify **one** crop and **one** animal product which the farmer in Fig. 8 produces.

Crop ..... Animal product ..... [2]

(iii) Suggest **three** different natural inputs which will be required by the farm shown in Fig. 8.

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

(iv) Explain how commercial farmers in MEDCs have increased their output.

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(b) Study Photograph B (Insert), which shows an area where agriculture is taking place in a tropical country.

(i) Describe **three** different features of the farming shown in Photograph B.

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

















