UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
General Certificate of Education Ordinary Level

CANDIDATE NAME	

CENTRE NUMBER						CANDIDATE NUMBER				

GEOGRAPHY **2217/12**

Paper 1 **October/November 2013**

1 hour 45 minutes

Candidates answer on the Question Paper.

Additional Materials: Ruler
                          Protractor
                          Calculator

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, **one** from each section.

The Insert contains Photographs A and B for Question 2 and Fig. 10 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	
Q1	
Q2	
Q3	
Q4	
Q5	
Q6	
Total	

This document consists of **24** printed pages, **4** blank pages and **1** Insert.

UNIVERSITY *of* CAMBRIDGE
International Examinations

[Turn over

Section A

Answer **one** question from this section.

QUESTION 1

(a) Study Fig. 1, a map showing net migration.

Key
■ positive (an increase in population as a result of migration)
▨ no change
□ negative (a decrease in population as a result of migration)

Equator
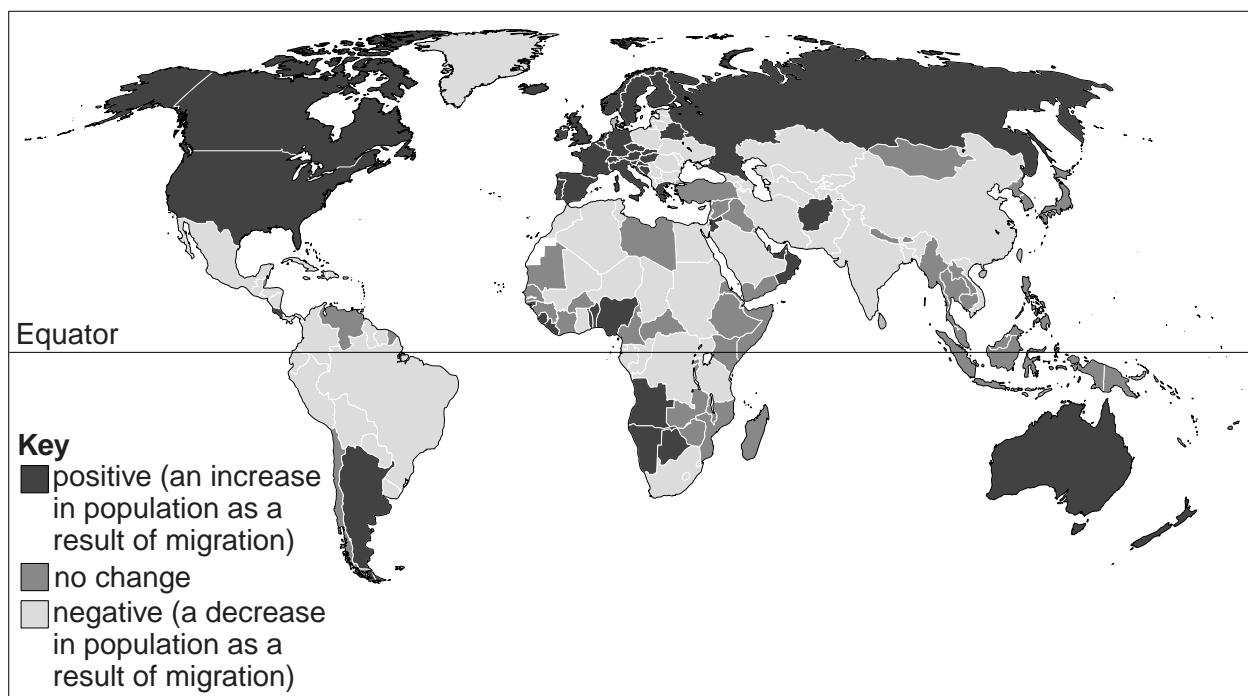
Fig. 1

(i) What is meant by *migration*?

....

.... [1]

(ii) Identify:

one country with positive net migration in North America;

....

one country with negative net migration in South America.

.... [2]

(iii) Using evidence from Fig. 1 **only**, compare net migration in Western Europe [and] Africa north of the Equator.

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.... [3]

(iv) Refer to push factors **only** to explain why many people migrate from LEDCs to MEDCs.

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[Turn over

(b) Study Fig. 2 below, a graph showing the increase in population in Bogota. Bogota [is the] capital city of Colombia, an LEDC in South America.
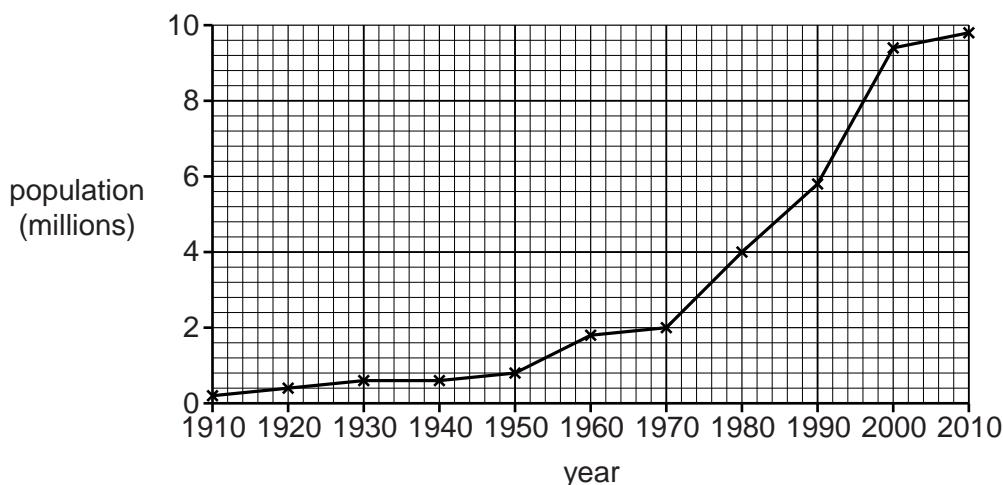
Fig. 2

(i) Describe the growth of Bogota's population. Refer to statistics and years in your answer.

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(ii) Explain why governments are concerned by the rapid increase in the population of LEDC cities, such as Bogota.

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(c) For a named country which you have studied, explain why the rate of natural population growth is low.

Name of country ....

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[Total: 25 marks]

END OF QUESTION 1

[Turn over

QUESTION 2

(a) Study Fig. 3, which shows information about the hierarchy of settlements, along with Photograph A (Insert), which shows part of a settlement.

increase in size, population and number of services →

CONURBATION
CITY
LARGE TOWN
SMALL TOWN
VILLAGE
HAMLET
ISOLATED DWELLING

increase in number of settlements →
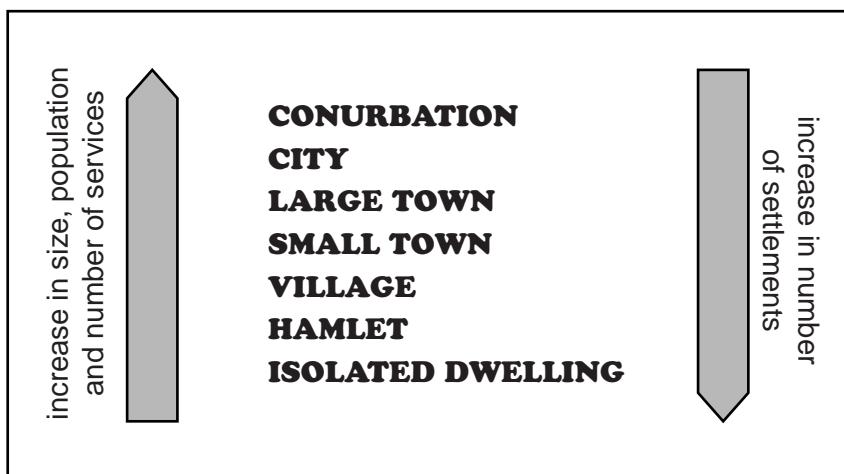
Fig. 3

(i) What is meant by the *hierarchy of settlements*?

....

.... [1]

(ii) What is the general relationship shown by Fig. 3 between:

the size of population and the number of services;

....

....

the size of population and number of settlements?

....

....

[2]

(iii) Identify the type of settlement shown in Photograph A. Give **two** pieces of ev ....
from Photograph A to justify your choice.

Underline your choice from the following types of settlement:

city   isolated dwelling   town   village

Evidence 1 ....

....

Evidence 2 ....

.... [3]

(b) Study Photograph B (Insert), which shows an area in the CBD of Warsaw in Poland (MEDC in Europe) where redevelopment has taken place.

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

1 ....

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2 ....

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3 ....

.... [3]

(ii) Suggest reasons why redevelopment such as this has taken place in many cities.

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[Turn over

(iii) Explain why some new leisure and retail areas are located on the edge of ~~~~ MEDCs.

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(c) For a named rural settlement which you have studied, describe the types of services provided.

Name of rural settlement ....

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[Total: 25 marks]

END OF QUESTION 2

Section B

Answer **one** question from this section.

QUESTION 3

(a) Study Fig. 4, which shows weather data.

Day	Maximum temperature (°C)	Minimum temperature (°C)	Precipitation (mm)	Wind speed (km/hr)	Wind direction	Cloud cover (oktas)	Atmospheric pressure (millibars)
1	13	7	5	7	NE	2	1003
2	16	10	0	4	SE	0	1004
3	15	12	9	12	S	5	998

Fig. 4

(i) What is meant by *weather*?

....

.... [1]

(ii) Explain how information about cloud cover is obtained.

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.... [2]

(iii) Name the instrument which is used to measure the following:

amount of precipitation; ....

wind speed; ....

atmospheric pressure. .... [3]

(iv) Many weather instruments are kept in a Stevenson Screen.
Describe where a Stevenson Screen should be sited. Give reasons for your answer.

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[Turn over

(b) Study Fig. 5, which shows a scale used to measure tropical storms.

Category	Central pressure (mb)	Wind velocity (km/hour)	Storm surge (metres)	Damage
1	More than 980	119–153	1.2–1.5	Minimal
2	965–980	154–177	1.6–2.4	Moderate
3	945–964	178–209	2.5–3.6	Extensive
4	920–944	210–248	3.7–5.5	Extreme
5	Less than 920	More than 248	Over 5.5	Catastrophic

Fig. 5

(i) Using Fig. 5 identify **three** differences between a category 1 and a category 3 tropical storm.

1 ....

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2 ....

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.... [3]

(ii) Describe the likely impacts of a tropical storm on a coastal area.

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(c) Underline **one** of the following types of natural environment and choose a
example:

- a flood plain;

- a delta;

- a coastal area.

Describe the ways in which your chosen type of natural environment can provide
opportunities for the people who live there.

Name of example ....

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[Total: 25 marks]

END OF QUESTION 3

[Turn over

QUESTION 4

(a) Study Fig. 6, which shows information about natural hazards between 1996 and 2005 MEDCs and LEDCs.

	MEDCs		LEDCs	
Natural hazard	Number of deaths	Damage (million US$)	Number of deaths	Damage (million US$)
Drought	0	10715	220879	293
Earthquakes/tsunamis	2265	62669	82140	6976
Floods	3471	77568	13276	4968
Volcanic eruptions	52	34	200	7719

Fig. 6

(i) Identify the type of natural hazard which caused the greatest total number of deaths.

.... [1]

(ii) Compare the impacts of floods in MEDCs and LEDCs.

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.... [2]

(iii) Suggest reasons why earthquakes caused more financial damage in MEDCs than LEDCs.

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(iv) Explain why volcanic eruptions often do not cause a large number of deaths.

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(b) Study Fig. 7, which shows information about a drought in East Africa.
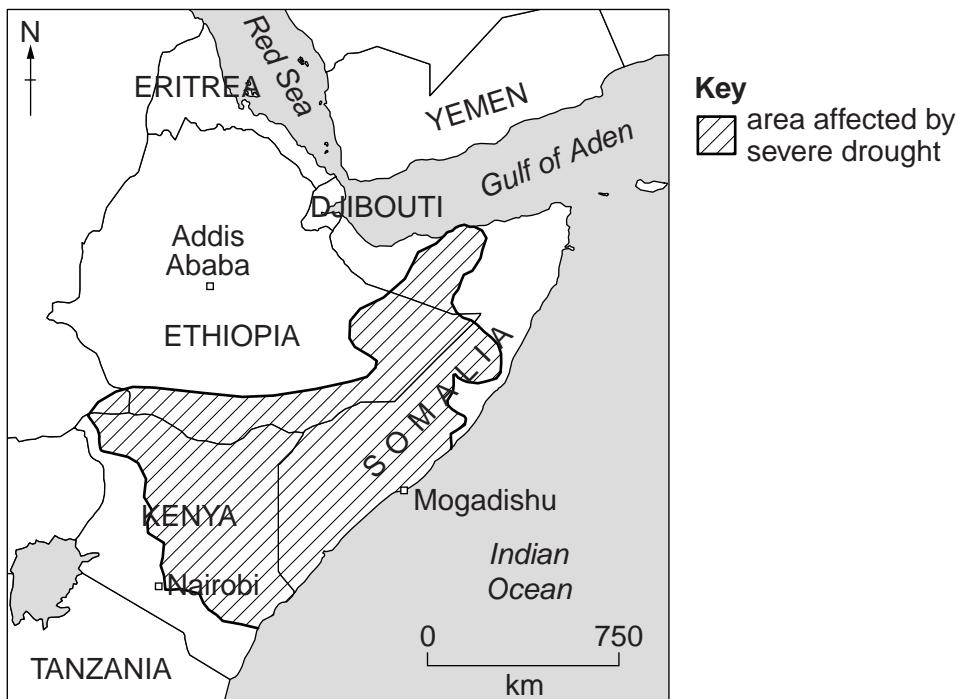
Fig. 7

(i) Describe the distribution of areas which were affected by severe drought.

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[Turn over

(ii) Describe the impacts of severe drought in LEDCs such as those shown on

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(c) For a named area of tropical desert, explain why the climate is hot and dry.

Name of tropical desert ....

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[Total: 25 marks]

END OF QUESTION 4

Section C

Answer **one** question from this section.

QUESTION 5

**(a)** Study Fig. 8, which shows information about a factory in Chile.
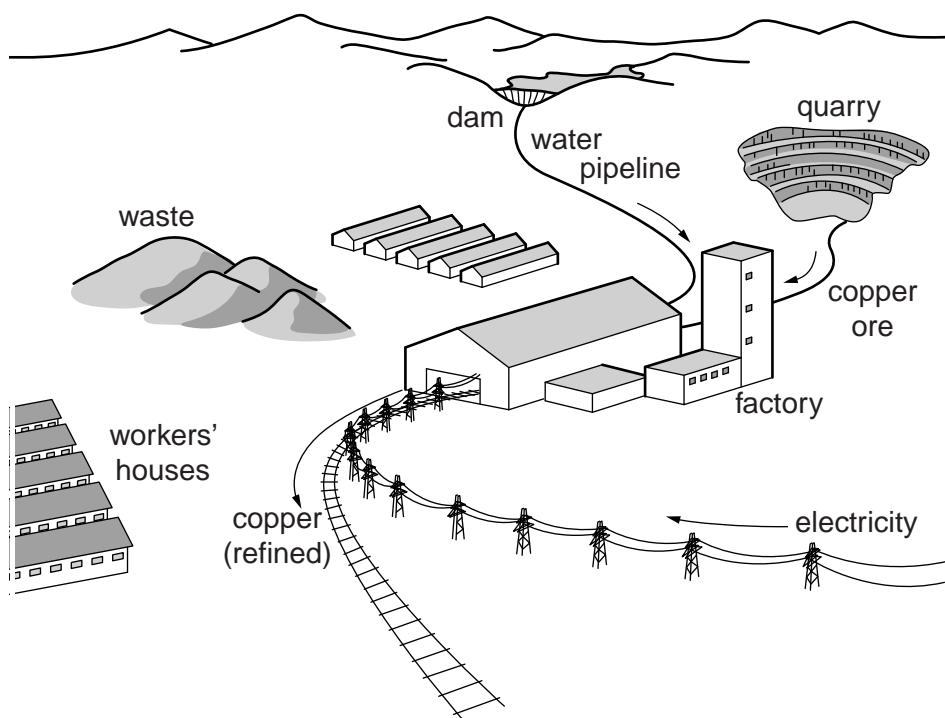

Fig. 8

(i) Identify the main output of the factory.

.... [1]

(ii) State **two** inputs used in the factory.

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

(iii) Suggest reasons to explain why the factory is located near to its raw materials.

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[Turn over

(iv) Suggest the likely threats to the natural environment caused by the in.......
activity shown in Fig. 8.

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(b) Study Fig. 9, which shows the location of Bangalore, India. Many companies have
recently located high technology industries in Bangalore.
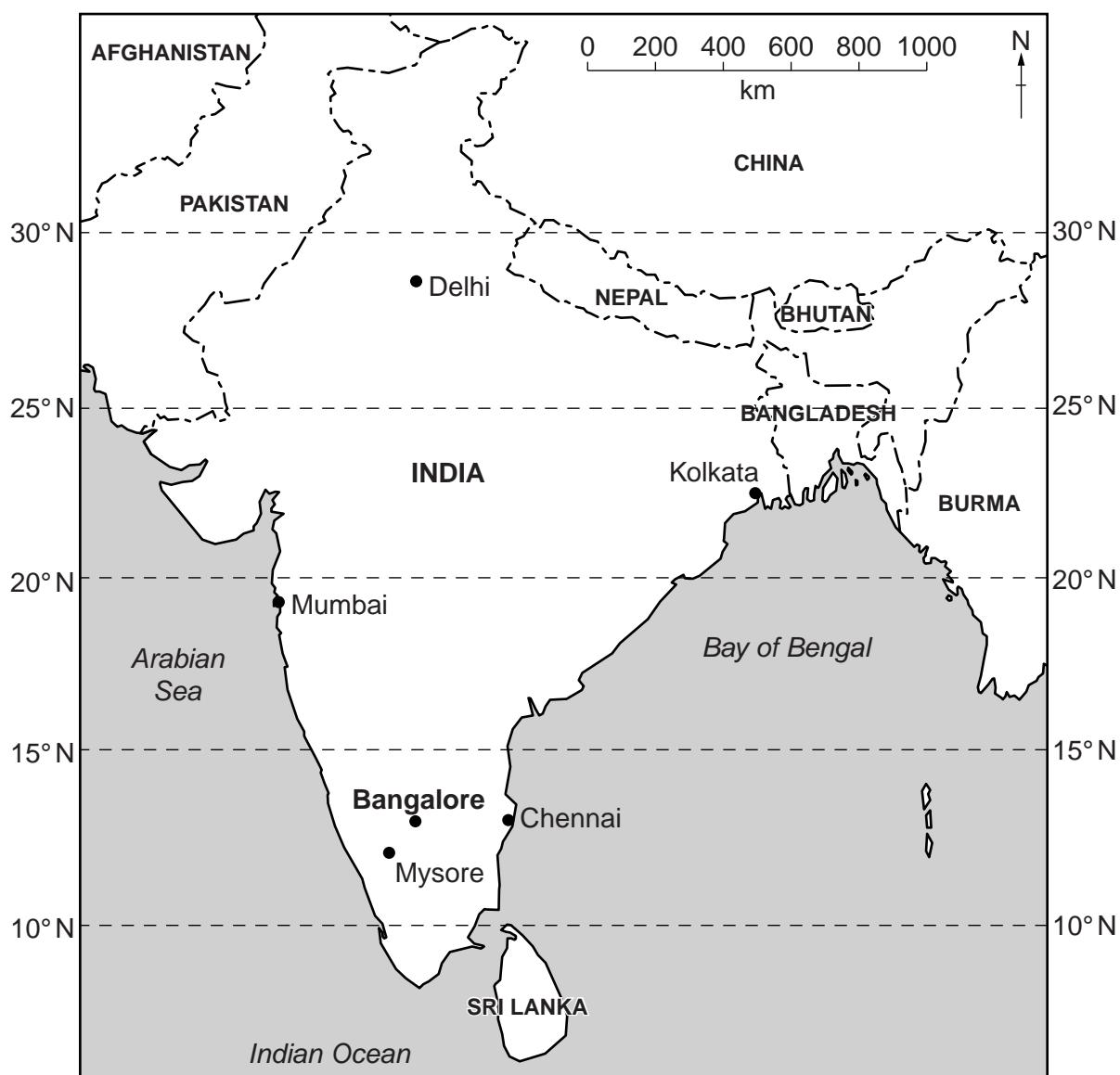
Fig. 9

(i) Describe the location of Bangalore.

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(ii) Explain why many large companies have located high technology indus........ LEDC cities, such as Bangalore.

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(c) For a named area which you have studied, describe the benefits of the growth technology industry.

Name of area ....

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[Total: 25 marks]

END OF QUESTION 5

[Turn over

QUESTION 6

(a) Study Fig. 10 (Insert), which shows information about the production and use of energy in the USA in 2008.

(i) Complete the table below by arranging the **uses** of energy in rank order from the largest to the smallest.

Use of energy	
	Largest
	↑
	↓
	Smallest

[1]

(ii) Underline:

the main user of crude oil in the USA in 2008;

residential   commercial   industrial   transport

the type of power station which generated the most electricity in 2008.

thermal   nuclear   HEP   solar

[2]

(iii) Suggest reasons why the USA wants to reduce its dependence on imported oil.

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.... [3]

(iv) Explain why the percentage of energy generated from renewable sources is .... many countries.

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(b) Study Fig. 11, which shows information about energy and the environment.

KEEPING A BALANCE
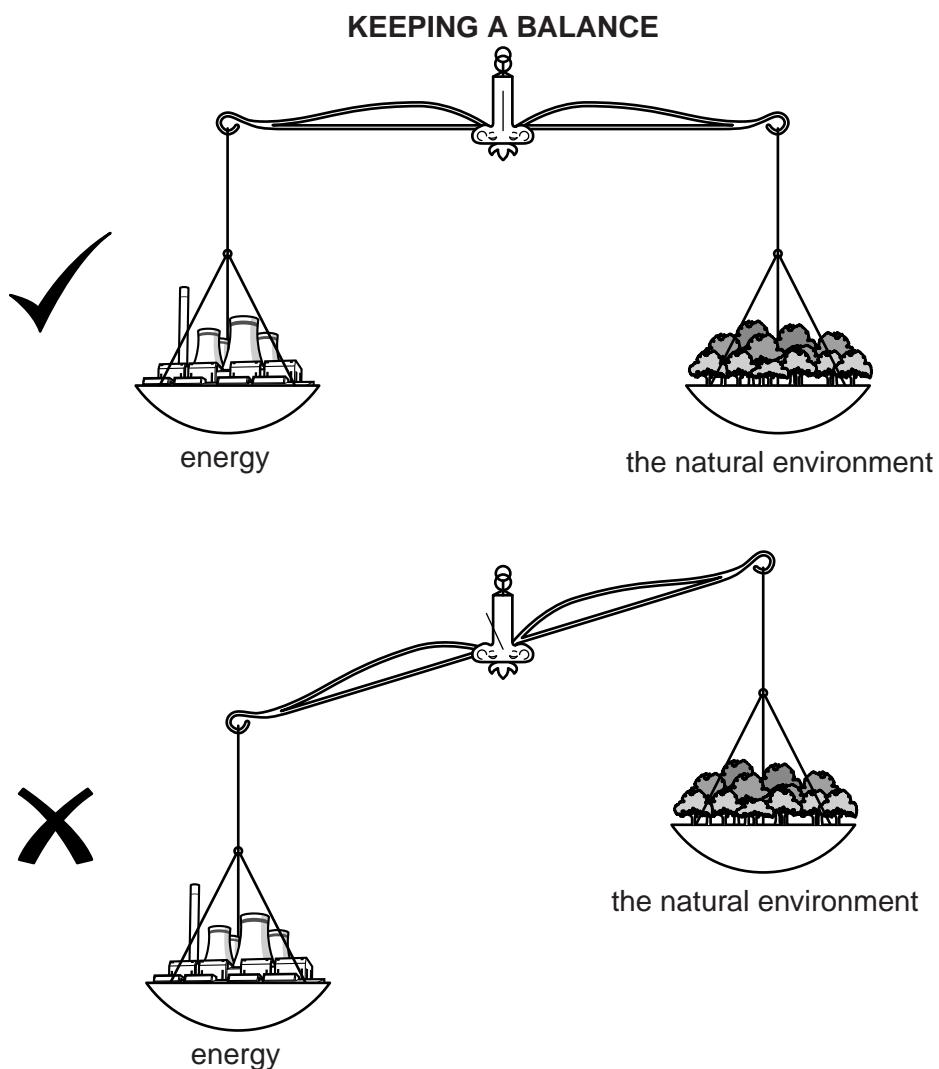
Fig. 11

(i) Suggest what message is being given by Fig. 11.

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(ii) Describe the problems which using fossil fuels can cause for the natural environment.

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(c) Give a named example of a type of power station which you have studied. Describe and explain the factors which have influenced its location.

Name of example ....

Type of power station ....

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[Total: 25 marks]

END OF QUESTION 6

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Additional Page

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