UNIVERSITY OF CAMBRIDGE INTERNATIONAL EX
International General Certificate of Secondary Educati

CANDIDATE NAME

CENTRE NUMBER | | | | | |

CAN NUMBER

3869585710

GEOGRAPHY **0460/12**

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.

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.

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UNIVERSITY of CAMBRIDGE International Examinations

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QUESTION 1

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



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]

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(iii) Using evidence from Fig. 1 **only**, compare net migratio
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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..... [4]

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(b) Study Fig. 2 below, a graph showing the increase in populati
capital city of Colombia, an LEDC in South America.

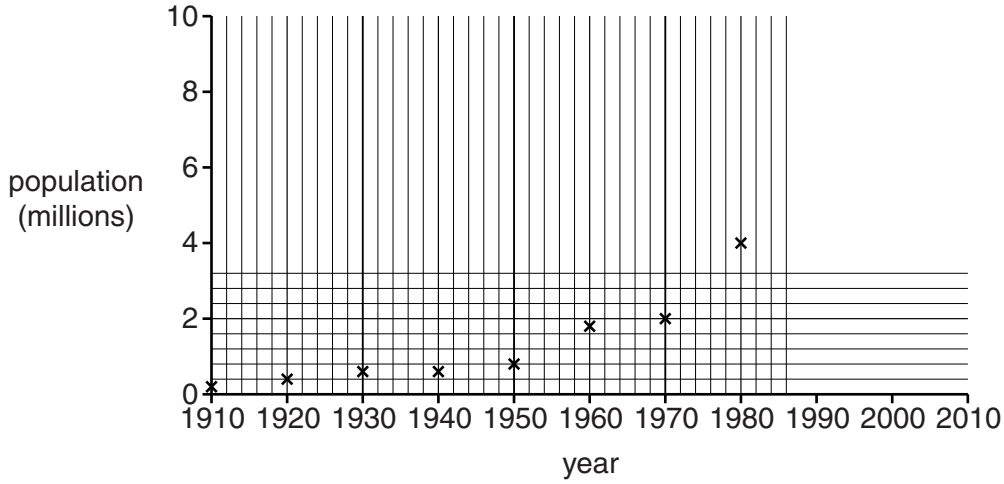


Fig. 2

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

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..... [3]

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

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..... [5]

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(c) For a named country which you have studied, explain why th
growth is low.

Name of country .....

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..... [7]

[Total: 25 marks]

END OF QUESTION 1

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QUESTION 2

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

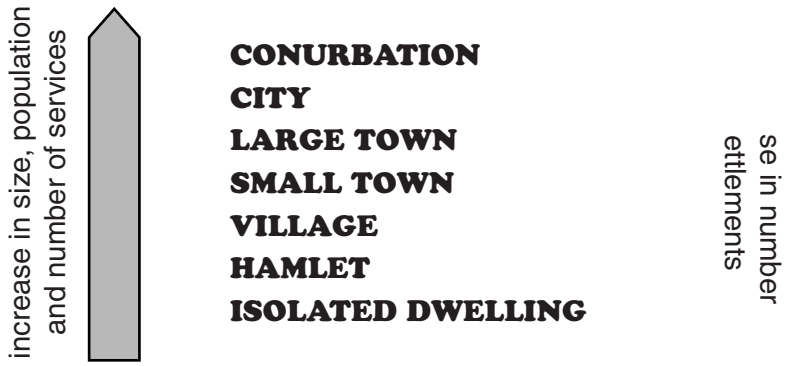


Fig. 3

(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]

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(iii) Identify the type of settlement shown in Photograph A. G
from Photograph A to justify your choice.

Underline your choice from the following types of settlem

city isolated dwelling town

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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..... [4]

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(iii) Explain why some new leisure and retail areas are locat MEDCs.

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..... [5]

(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

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QUESTION 3

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

Day	Maximum temperature (°C)	Minimum temperature (°C)	Precipitation (mm)	Wind speed (km/hr)	Wind directio		
1	13	7	5	7	NE		
2	16	10	0	4	SE		
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.

.....

.....

.....

..... [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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..... [4]

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

Category	Central pressure (mb)	Wind velocity (km/hour)	Storm sur (metres)	
1	More than 980	119–153	1.2–1.5	
2	965–980	154–177	1.6–2.4	
3	945–964	178–209	2.5–3.6	
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 .....

..... [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 environm example:

– a flood plain;

– a delta;

– a coastal area.

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

Name of example .....

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[Total: 25 marks]

END OF QUESTION 3

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QUESTION 4

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

	MEDCs			
Natural hazard	Number of deaths	Damage (million US$)	Num dea	
Drought	0	10715	220	
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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..... [3]

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(iv) Explain why volcanic eruptions often do not cause a larg

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..... [4]

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

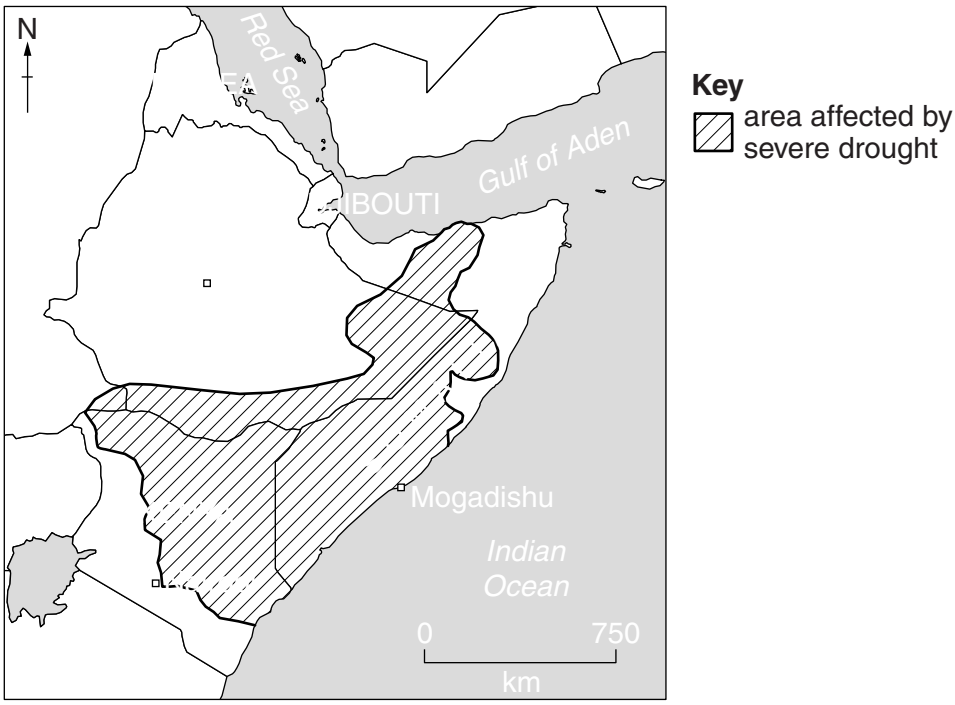


Fig. 7

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

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..... [3]

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(ii) Describe the impacts of severe drought in LEDCs such

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..... [5]

(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

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QUESTION 5

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

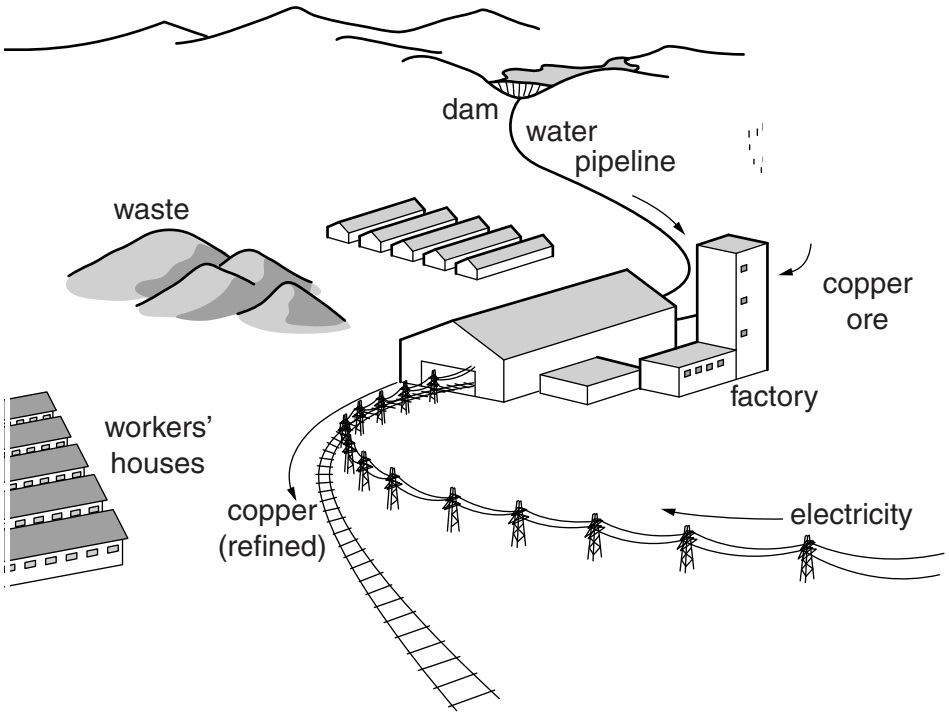


Fig. 8

(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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..... [3]

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

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

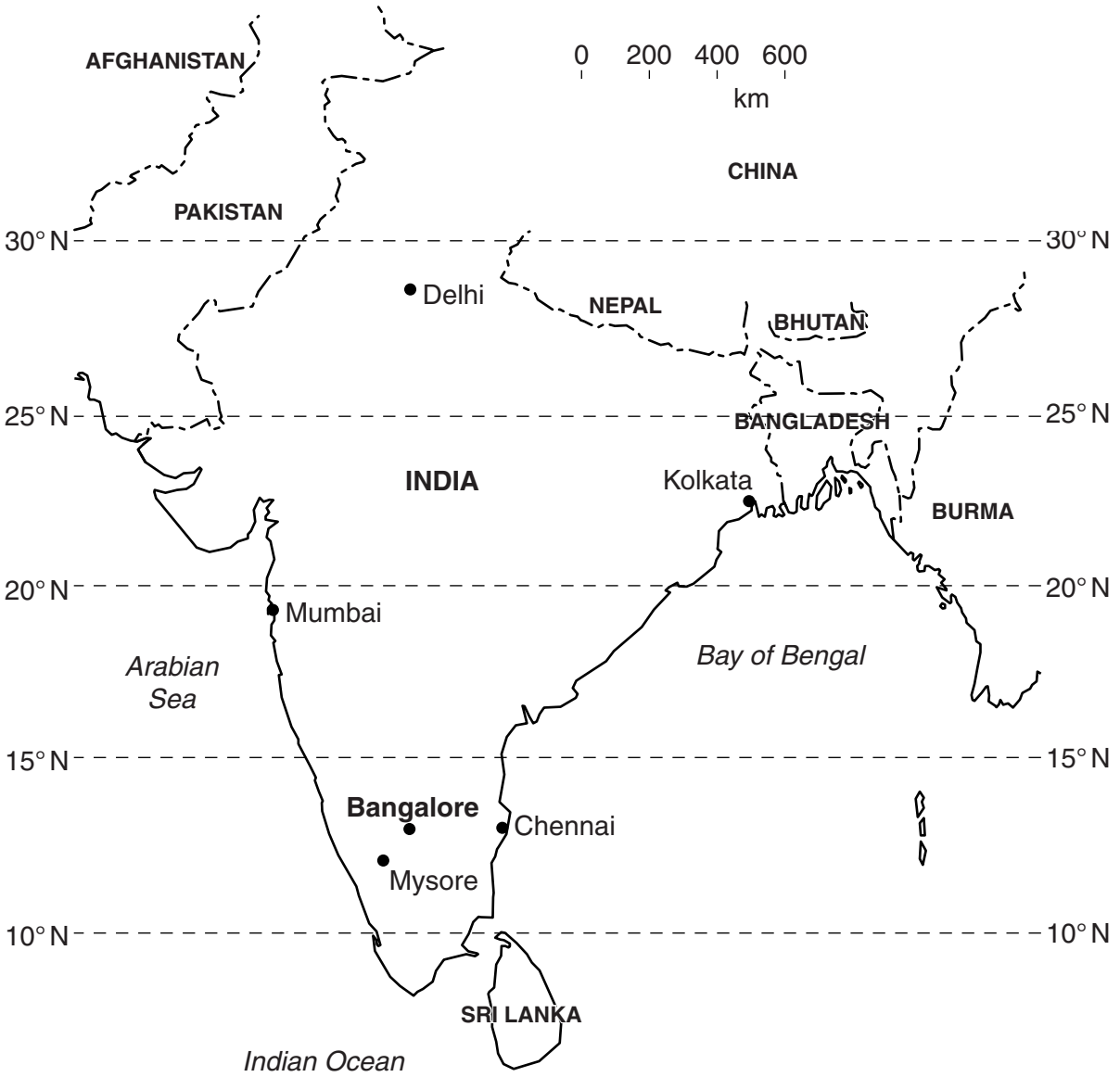


Fig. 9

(i) Describe the location of Bangalore.

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..... [3]

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

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

Name of area .....

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[Total: 25 marks]

END OF QUESTION 5

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QUESTION 6

(a) Study Fig. 10 (Insert), which shows information about the pro in the USA in 2008.

(i) Complete the table below by arranging the **uses** of ene 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]

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(iv) Explain why the percentage of energy generated from r
many countries.

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

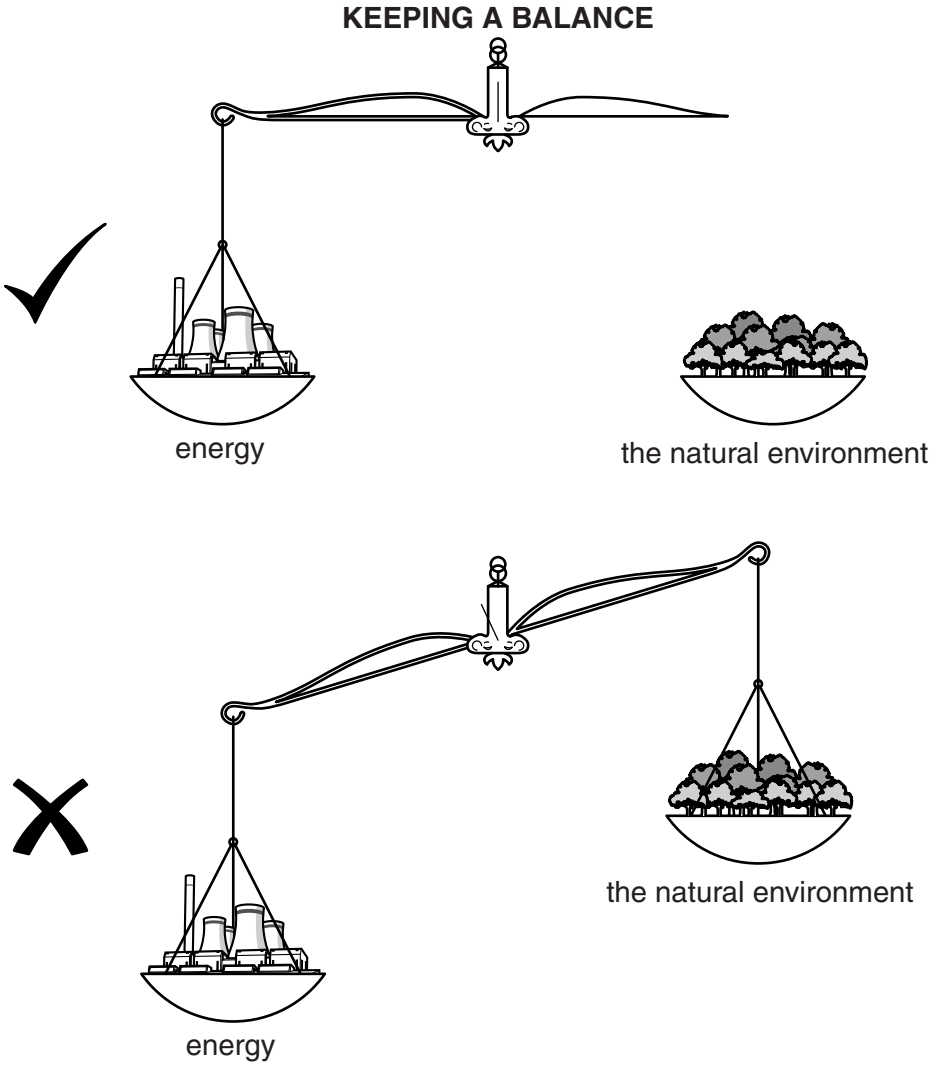


Fig. 11

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

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..... [3]

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(ii) Describe the problems which using fossil fuels can cause f

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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

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

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Question 4 Fig. 7 © amended: *Map of Drought in East Africa*; http://teachingwithdata.blogspot.com/2011/07/severe-drought-causes-famine-in-eastern.html.
Question 5 Fig. 8 © amended: Wideworld; Phillip Allen Publications; April 2003.
Question 6 Fig. 10 © amended: *Energy Flows*; Lawrence Livermore National Laboratory and The Department of Energy; http://mapawatt.com/2010/06/03/energy-flows

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