



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
International General Certificate of Secondary Education

CANDIDATE
NAME

CENTRE
NUMBER

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CANDIDATE
NUMBER

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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.



QUESTION 1

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

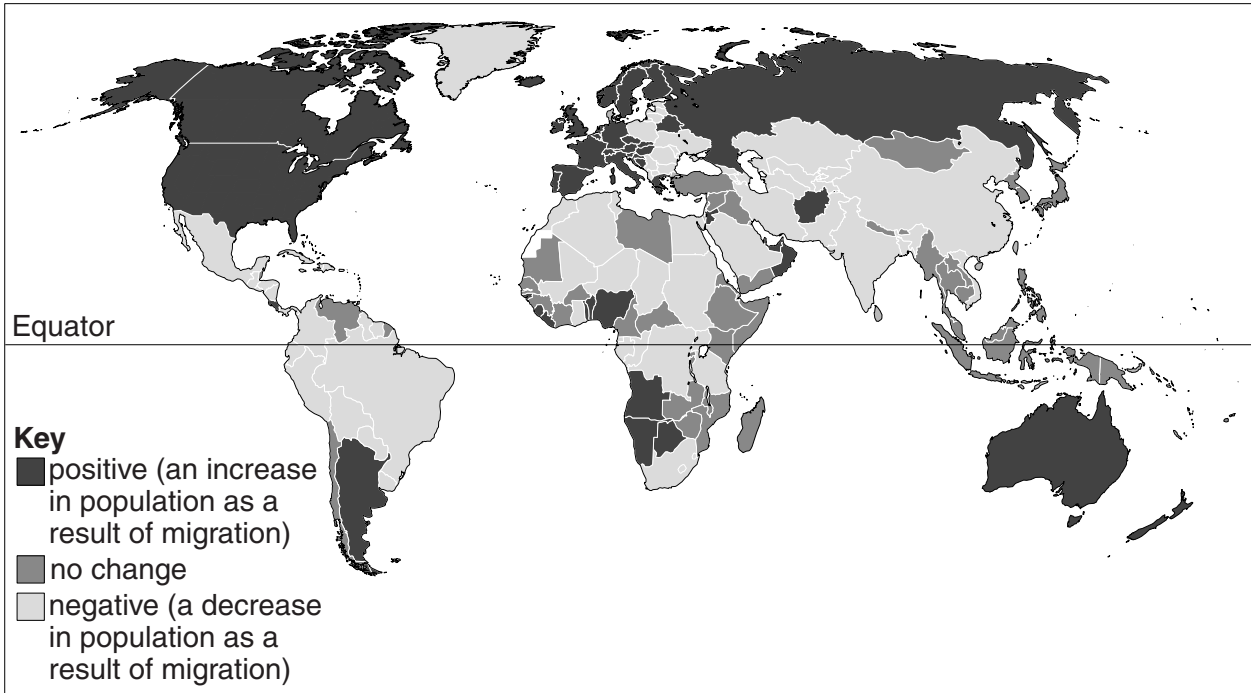


Fig. 1

(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]

(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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..... [4]

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.

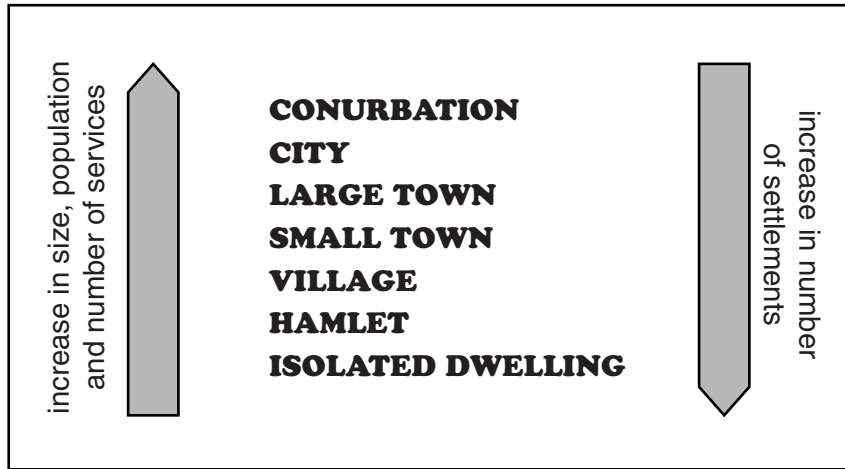


Fig. 3

- (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 evidence 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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..... [4]

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.

.....

 [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.

.....

 [4]

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

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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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..... [5]

QUESTION 4

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

Natural hazard	MEDCs		LEDCs	
	Number of deaths	Damage (million US\$)	Number of deaths	Damage (million US\$)
Drought	0	10 715	220 879	293
Earthquakes/tsunamis	2265	62 669	82 140	6976
Floods	3471	77 568	13 276	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.

.....

 [2]

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

.....

 [3]

QUESTION 5

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

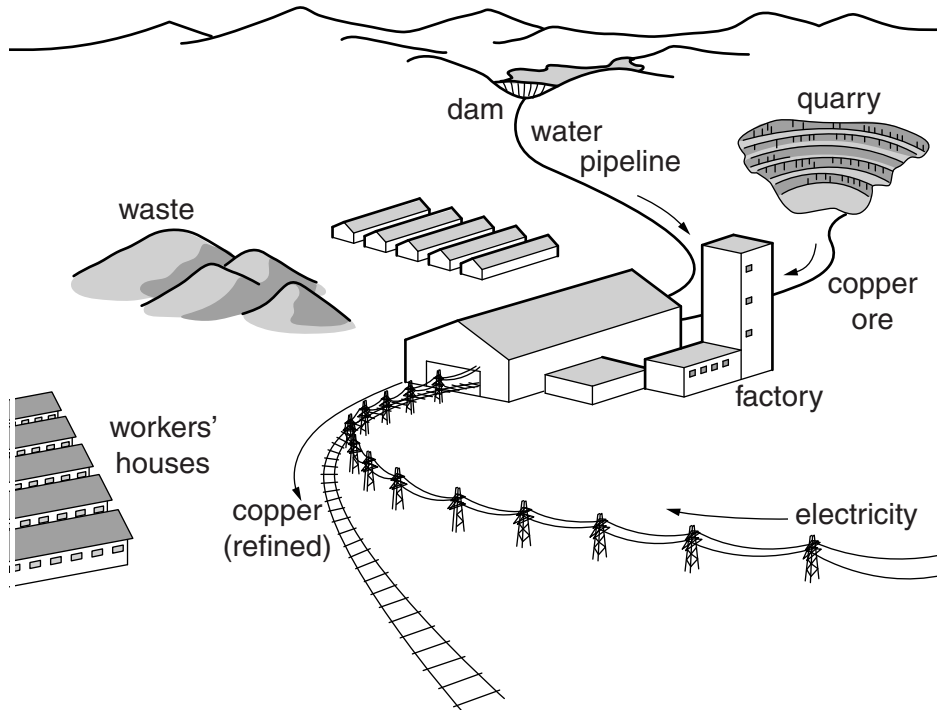


Fig. 8

(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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..... [3]

(iv) Suggest the likely threats to the natural environment caused by the industrial 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.

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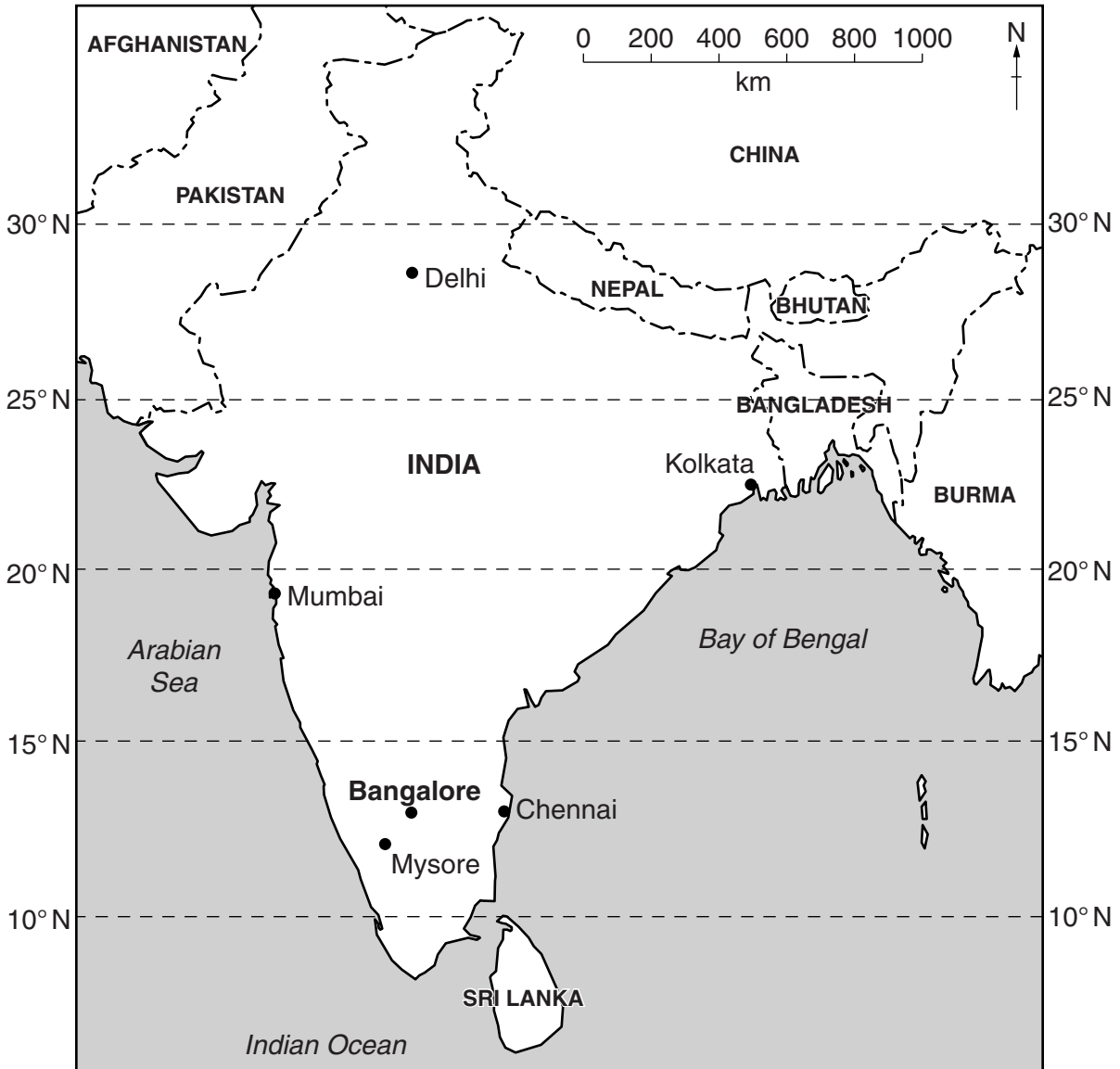


Fig. 9

(i) Describe the location of Bangalore.

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[3]

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 low in many countries.

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..... [4]

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

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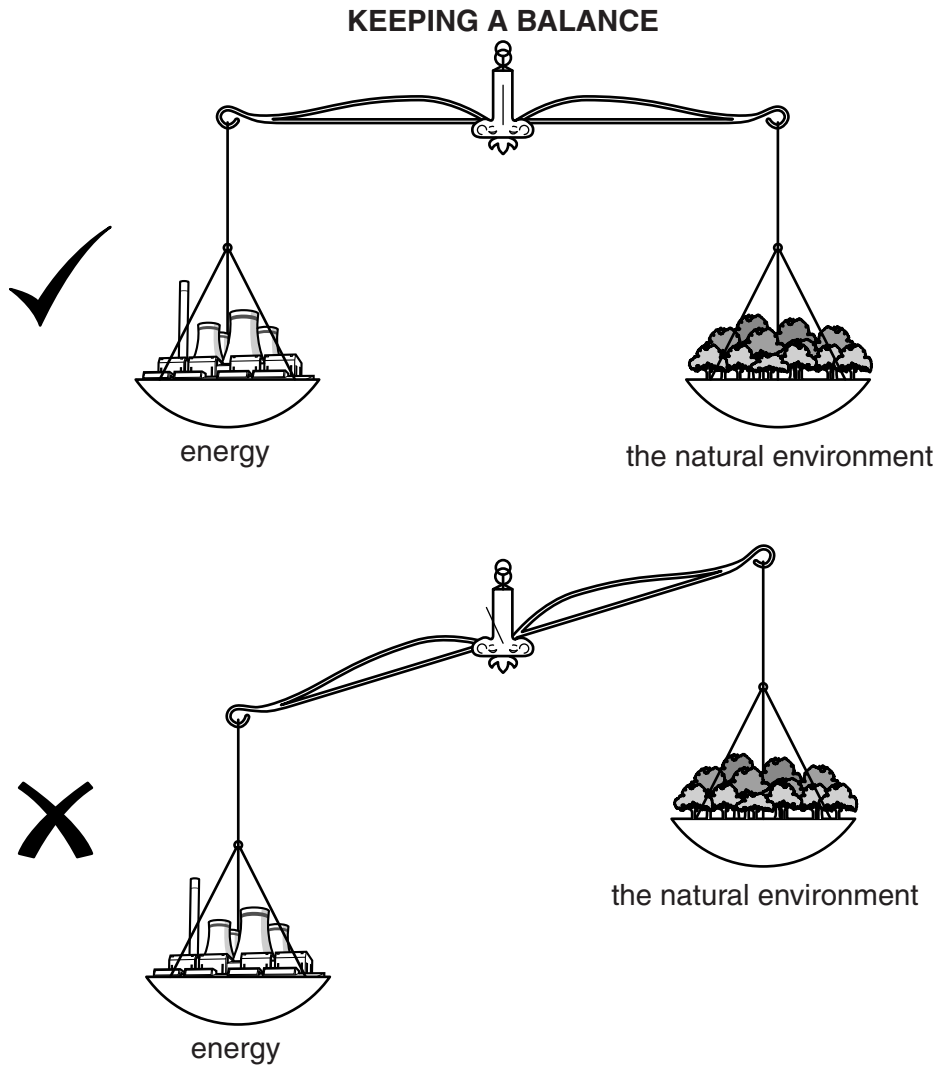


Fig. 11

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

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..... [3]

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Copyright Acknowledgements:

- Question 1 Fig. 1 © adapted: http://familypedia.wikia.com/wiki/Human_migration.
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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