

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME			
 CENTRE NUMBER		CANDIDATE NUMBER	
GEOGRAPHY			0460/12
Paper 1		October/Nove	ember 2013
		1 hour	45 minutes
Candidates answer of	n 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.

Calculator

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.



UNIVERSITY of CAMBRIDGE International Examinations

[Turn over







For Examiner's Use (iii) Using evidence from Fig. 1 only, compare net migration in Western Europe and Africa north of the Equator.[3] Refer to push factors only to explain why many people migrate from LEDCs to (iv) MEDCs.[4]

For Examiner's Use (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. Examiner's





(i) Describe the growth of Bogota's population. Refer to statistics and years in your answer.[3] (ii) Explain why governments are concerned by the rapid increase in the population of LEDC cities, such as Bogota.[5] 0460/12/O/N/13

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Use

(c)	For a named country which you have studied, explain why the rate of natural population growth is low.	For Examiner's Use
	Name of country	
	[7]	
	[Total: 25 marks]	

END OF QUESTION 1

5

QUESTION 2

- For Examiner's Use
- (a) Study Fig. 3, which shows information about the hierarchy of settlements, along with Photograph A (Insert), which shows part of a settlement.





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

(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 2 3[3] (ii) Suggest reasons why redevelopment such as this has taken place in many cities.[4]

For Examiner's Use

(111)	Explain why some new leisure and retail areas are located on the edge of cities in MEDCs.
	[5]
For	r a named rural settlement which you have studied, describe the types of services
pro	wided.
·····	
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[Total: 25 marks]

END OF QUESTION 2

8

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



(i)	What is meant by <i>weather</i> ?
	[1]
(ii)	Explain how information about cloud cover is obtained.
(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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(b'	Stud	v Fia. 5.	which	shows a	scale	used to	measure	tropical	storms.
١	~	Oluu	y i ig. o	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0110110 0	000010	4004 10	mousure	liopioui	51011110.

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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
2
3
[3]
Describe the likely impacts of a tropical storm on a coastal area.
[5]

(c)	example:	For niner's Jse
	 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	
	[Total: 25 marks]	

END OF QUESTION 3

QUESTION 4

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

	ME	DCs	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	77 568	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.
[2]
(iii) Suggest reasons why earthquakes caused more financial damage in MEDCs than LEDCs.
[3]

12



13

0460/12/O/N/13

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(ii)	Describe the impacts of severe drought in LEDCs such as those shown on Fig. 7.	Ex
	[5]	
For	a named area of tropical desert, explain why the climate is hot and dry.	
Nor		
Nar	ne of tropical desert	
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[Total: 25 marks]

END OF QUESTION 4

QUESTION 5

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



For Examiner's Use (iv) Suggest the likely threats to the natural environment caused by the industrial activity shown in Fig. 8.

For Examiner's Use

[4]

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

For Examiner's Use



..... [3]

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

For Examiner's Use

[5]

(c)	For a named area which you have studied, describe the benefits of the growth of high technology industry.	For Examiner's Use
	Name of area	
	[7]	
	[Total: 25 marks]	

END OF QUESTION 5

19

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			
				Sma	allest	
						[1]
(ii)	Underline:					
(11)						
	the main user c	f crude oil in the USA	in 2008;			
	residential	commercial	industi	rial	transport	
	the type of pow	er station which gene	rated the m	nost electr	icity in 2008	
	thermal	nuclear	HEP)	solar	
						[2]
(iii)	Suggest reasor	ns why the USA wants	s to reduce	its depend	dence on im	ported oil.
						[3]

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(iv) Explain why the percentage of energy generated from renewable sources is low in many countries. Examiner's

..... _____[4] For

Use

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



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(ii)	Describe the problems which using fossil fuels can cause for the natural environment.
	[5]
Giv	e a named example of a type of power station which you have studied. Describe and lain the factors which have influenced its location.
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	ne of example
	ne of example

[Total: 25 marks]

END OF QUESTION 6

0460/12/O/N/13

Additional Page	For
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Additional Page

0460/12/O/N/13

28

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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