

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

CANDIDATE NAME			
 CENTRE NUMBER		CANDIDATE NUMBER	
GEOGRAPHY			0460/23
Paper 2			May/June 2012
			1 hour 30 minutes
Candidates answe	er on the Question Paper.		
Additional Materia	ls: Ruler Plain paper		

1:25 000 Survey Map Extract is enclosed with this question paper.

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.

Answer **all** questions.

The Insert contains Fig. 4 for Question 2 and Photograph A for Question 3. The Survey Map Extract and the Insert are **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 15 printed pages, 1 blank page and 1 Insert.



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[Turn over

1 The map extract is for Mt. Laselle, Mauritius. The scale is 1:25 000. For Examiner's Use (a) Fig. 1 shows the positions of some features in the south of the map extract. 11 12 13 10 84 84 D 83 -83 Ē ſ В +82 13 82 10 11 12 Fig. 1 Using the map extract, identify the following features shown on Fig. 1: (i) the height at feature A; [1] metres (ii) feature B;[1] (iii) the name of river **C**;[1] (iv) feature **D**;[1] (v) feature E.[1]

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(b) Fig. 2 shows the three types of vegetation in grid square 1085.





In the table below, name each type of vegetation and describe the relief of the land on which it is growing.

vegetation type	relief
1	
1	
2	
3	

[6]

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(ii)	Give reasons for your answer to (d)(i).	For Examiner's
		Use
	[2]	
(iii)	The power station shown on Fig. 3 produces HEP. State why this is a suitable location for an HEP station.	
	[2]	
	[Total: 20 marks]	

	Fig. 4(May 20	•	ws some plate bounda	aries, and some volca	anoes erupting on a day i	n _{For} Examiner's Use
((a) Us	ng Fig. 4, r	name:			
	(i)	a volcanc	which is not near a pla	te boundary;		
					[1]
	(ii)	the two p	lates which are respons	sible for the formation	of the volcano Chaiten;	
					[1]
	(iii)	a plate w	th no eruptions during t	the day shown on the	map;	
					[1]
	(iv)	two plate	s with a constructive pla	ate boundary along wh	nich an eruption occurred.	
					[1]
((b) De	scribe the o	distribution of volcanic e		n Plate on Fig. 4.	
					[2	2]
((c) (i)		erupting in Iceland pre k in April 2010.	vented aircraft from cr	ossing large parts of Europ	e
		Circle bel	ow the type of volcanic	hazard which would h	nave caused the problem.	
		ash	carbon dioxide	lava bombs	lava flows [1]
	(ii)		now it was possible for a inland Europe.	a volcanic eruption in I	celand (labelled on Fig. 4) t	ο
					[1]
					[Total: 8 marks	s]

Study Photograph A (Insert), which shows a river and its valley. For Examiner's Use (a) Describe the features of the river and its valley shown in Photograph A.[5] (b) Fig. 5 is a sketch section of the long profile of the valley shown in Photograph A. Add labels to the sketch section to describe its long profile. Fig. 5 [2] (c) Suggest one reason why people might object to a plan to build a dam across this valley.[1] [Total: 8 marks]

4 (a) (i) Fig. 6 gives information about emigrants from the Philippines living temporarily in certain countries in December 2008.

Complete the graph to show that 550000 Filipinos were temporary migrants in the United Arab Emirates (UAE).



1000 1000 emigrants from the Philippines (000's) 900 900 emigrants from the Philippines (000's) 800 800 700-700 600 -600 500-500 400 400 300 300 200 200 100 100 0 0 Kuwait N USA Saudi Arabia UAE Qatar Fig. 6



- (ii) How many Filipinos were temporary migrants to Qatar in 2008?
 -[1]

(b) Table 1 gives information, for 2008, about the countries referred to in Fig. 6. Use Table 1 and Fig. 6 to answer the questions which follow.

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	Approximate distance from the Philippines (km)	Population (millions)	GDP per person (US\$)	GDP per person rank in the world	Languages (official language in bold)
Philippines	0	98	3300	162nd	Filipino, English
Kuwait*	7600	2.7	54100	7th	Arabic , English widely spoken
Qatar*	7300	0.8	121700	2nd	Arabic , English widely spoken
Saudi Arabia*	7800	28.7	20400	60th	Arabic , English widely spoken
United Arab Emirates (UAE)*	6900	4.8	42000	17th	Arabic , English widely spoken
United Kingdom (UK)	10700	61	35200	34th	English
United States of America (USA)	12000	307.2	46 400	11th	English

Та	bl	e	1

* country in the Middle East

GDP is a measure of the wealth of a country

(i) What do all these countries have in common to attract migrants from the Philippines? Use only evidence from Table 1.

(ii) Does distance affect the number of migrants from the Philippines to Kuwait and to the USA? Explain your answer.

.....[2]

[Turn over www.theallpapers.com

(c) Complete Fig. 7 to show that, in December 2008, 59% of the total temporary emigrants from the Philippines were to the Middle East. Use the key provided.



Fig. 7



[Total: 8 marks]

5 (a) Table 2 shows the percentage costs of a high technology company in the UK, an MEDC.

Table 2

labour, rent and electricity	80%
raw materials	18%
transport	2%

Complete Fig. 8, using the information in Table 2 and the key provided.







For Examiner's Use (b) Fig. 9 shows the location of Bangalore, the largest centre of the electronics industry in India, an LEDC. Fig. 10 gives information about the electronics industry in Bangalore. Examiner's Use Figs 9 and 10 only to answer the questions which follow.





For

Use



main inputs	processes	selected outputs
flat land large amounts of capital	inventing new products	televisions computers
financial incentives from the Government silicon chips	designing complicated machinery to make the products	printers telephones
large highly educated and skilled workforce electricity fast transport to market	making products by automated machines	



	(i)	State the advantages shown in Fig. 9 of Bangalore for the manufacture of electronics.	For Examiner's Use
		[2]	
	(ii)	Explain why the transport costs of electronics companies are low.	
	()		
		[1]	
	(iii)	Explain why the labour costs of electronics companies are high.	
		[1]	
(c)		gapore is a small island MEDC. Suggest two reasons why Singapore set up a hnology Park in Bangalore in an LEDC for some of its electronics companies.	
	1		
	2		
		[2]	
		[Total: 8 marks]	

6 Fig. 11 gives information about an oil leak in the Gulf of Mexico and Fig. 12 is a map of the Gulf of Mexico and adjacent coast. Use Figs 11 and 12 to answer the questions which follow.

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	timeline	wind direction
•	22nd April – An explosion caused an oil rig to sink 1500 metres to the sea floor, causing the well and pipeline on the sea bed to fracture. 29th April – Estimates stated that 5000 barrels of oil were leaking	occasionally south westerlies but mainly strong south easterlies
•	into the sea each day.	South easternes
•	30th April – Estimate of the loss rose to 25000 barrels per day with some estimates being even higher.	

• May 1st – The surface oil slick was nearly 200 km wide.





Fig. 12

(a)	Explain why estimates of the amount of oil leaking from the pipeline varied.		
		[1]	
(b)	(i)	Despite attempts to prevent it, oil reached the coast by the end of the first week of May.	
		Suggest which named area on Fig. 12 was affected first and give reasons for your answer.	
		[3]	
	(ii)	Explain why some experts warned that the oil could eventually spoil the tourist beaches along the east coast of Florida.	
		[2]	
	(iii)	Suggest two groups of people who would have different reasons for objecting to future drilling for oil in the Gulf of Mexico. Explain why each group would object.	
		1	
		2	
		[2]	
		[Total: 8 marks]	

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0460/23/M/J/12