

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME		
	CENTRE NUMBER		CANDIDATE NUMBER
* 0	GEOGRAPHY		0460/23
7 5	Paper 2		October/November 2011
Ч 5			1 hour 30 minutes
	Candidates answer on t	he Question Paper.	
* 9 7 5 1 5 4 1 5 7 5 *	Additional Materials:	Ruler Protractor Plain paper	

1:25000 Survey Map Extract is enclosed with this Question Paper.

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 IN ANY BARCODES.

Answer all questions.

The Insert contains Photograph A for Question 2 and Photograph B for Question 5. Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

The Survey Map Extract and the Insert are **not** required by the Examiner.

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.

This document consists of 15 printed pages, 1 blank page and 1 Insert.



[Turn over

- 1 The map extract is for Souillac, Mauritius. The scale is 1:25 000.
 - (a) Fig. 1 shows the positions of some features in the centre of the map extract.



Fig. 1

For Examiner's Use

	Stu	dy the map and identify the following features shown on Fig. 1:	For
	(i)	the name of the river at A ;	Examiner's Use
		[1]	
	(ii)	the public building at B ;	
	(iii)	the land use at C ;	
		[1]	
	(iv)	the type of road at D ;	
	(v)	the natural vegetation at E .	
	_	[1]	
(b)	Des	scribe the physical features of the coastline in the area of the map extract.	
		[5]	

 74
 93

 74
 74

 73
 73

(c) Describe the drainage of the area shown in Fig. 2 in the north west of the map.

Fig. 2

_ 72 93

(d) Fig. 3 shows roads in grid squares 9965 and 0065.

72 ∟ 92



Fig. 3

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(i) Complete Table 1, using the map extract to obtain your answers.

Table 1

height of bench mark by the bridge (Y) at 007653 (to the nearest whole number)	metres
height of road junction (X) at 992652	40 metres
difference in height between X and Y (to the nearest whole number)	metres

[1]

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(ii) Measure the shortest distance in metres **along the roads** between **X** and **Y**. Circle the nearest distance to your answer in metres from the choices below.

1600	1650	1700	1750	[1]
------	------	------	------	-----

(iii) Use your answers to (i) and (ii) to calculate the approximate gradient along the road between X and Y. Circle the nearest gradient to your answer from the choices below.

1 in 65	1 in 100	1 in 135	1 in 170	[1]
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(e) Explain why a settlement has grown at Chemin Grenier (grid squares 9367, 9467 and 9468).

[4] [Total: 20 marks] 2 (a) Study Fig. 4, which is a map of the land use zones of a city in an MEDC, together with Photograph A (Insert) showing part of the city.

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(ii) Describe the characteristics of the area shown on Photograph A which support your answer. Use[3] (b) Use Fig. 4 to explain: why its site led to the city's growth as an important seaport; (i)[2] (ii) one advantage of the location of the airport; (iii) one disadvantage of the location of the airport.[1] [Total: 8 marks]

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For Examiner's

For Examiner's 60000 Use 55000 50000 45000 Key million square metres 40000 35000 other textiles 30000 cotton textiles 25000 20000 15000 10000 5000 0 2001 2002 2003 2004 2005 2006 2007 2008 year Fig. 5 (i) Describe the general trend of Indian textile production.[1] (ii) What proportion of the total Indian textile production in 2008 was cotton?[1] (iii) In which year did cotton textile production decrease? [1] (iv) What was the highest production of cotton textiles over the period shown? million square metres [1]

8

(b) Fig. 6 gives information about factors required by cotton textile manufacturing, and Fig. 7 is a section across a part of India showing the position of Mumbai, a major cotton textile manufacturing city.

Cotton textile manufacturing requirements

- a supply of raw cotton from the cotton fields
- power to work the machinery
- a humid atmosphere so that the threads do not break during spinning
- a large, skilled labour force





Use Figs 6 and 7 to explain why Mumbai is a good location for cotton textile manufacturing.



For Examiner's Use

(a) Fig. 8, shows the magnitudes (power) of some of the strongest earthquakes in Europe 4 in the period 1900 to 2000 and the number of deaths they caused. Examiner's

Use 1400 1300 1200 1100 1000 900 number of deaths 800 700 600 500 400 300 200 100 0 6.8 6.5 6.6 6.9 7.0 7.1 6.7 7.2 earthquake magnitude (Richter Scale) Fig. 8

- What is the highest number of deaths recorded on Fig. 8? (i)
 -[1]
- (ii) Details of four other earthquakes are shown in Table 2 below. Add to Fig. 8 the plot for the earthquake with a magnitude of 7.2 and a death toll of 800. [1]

deaths
800
2483
32610
82000

Table	2
-------	---

10

For

(iii) Explain why the other earthquakes listed in Table 2 were not plotted on Fig. 8. For Examiner's Use[1] Circle the description which best describes the relationship between the magnitude (iv) of the earthquakes and the number of deaths shown on Fig. 8. positive relationship no relationship negative relationship [1] (b) Fig. 9 is a time-line of the earthquakes with the largest magnitudes in Europe during the period 1900 to 2000. 7.5 earthquake magnitude 7.0 6.5 6.0 5.5 5.0 0 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 year Fig. 9 (i) State the highest magnitude of the earthquakes recorded on Fig. 9.[1] (ii) How many of the earthquakes on Fig. 9 had a magnitude of 6.8?[1] (iii) When was the longest period without any earthquakes with a magnitude of 6.5 or higher? from[1] Circle the decade with the highest frequency of earthquakes with a magnitude of (iv) 6.5 and higher. [1] 1900-1910 1910-1920 1950-1960 1970-1980 [Total: 8 marks]

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(a) Study Photograph B (Insert), which shows an area of tropical rainforest.
Describe the characteristics of the vegetation which can be seen in Photograph B.
Use
Use

(b) Study Figs 10 and 11, which give some information about the climate of the area in which the photograph was taken.

.....[4]

Some rainfall is evaporated by the heat. This means that it changes from liquid to gas and is returned to the atmosphere as water vapour. If there is more rainfall than evaporation, water will be available to enter the soil and to be taken up by plants. Heat and soil moisture are both essential for healthy plant growth.

Fig. 10

12

5



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(a) Fig. 12 shows part of north-west Mexico, an LEDC, where the government has funded 6 the necessary infrastructure to develop a tourist resort at Los Cabos. Examiner's





Use information from Fig. 12 to answer the questions.

What was the only way in which Los Cabos could be reached before 1974? (i)

.....[1] (ii) Why did the location of Los Cabos make it an unlikely one for the growth of a tourist resort?

.....[1]

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(iii) In which compass direction do visitors arriving by road travel from the USA border to Los Cabos?

15

Examiner's Use

(b) The growth of tourist visitors to the area is shown in Fig. 13. 2.5 2.5 arriving by air and road only arriving by air and road only tourist visitors (millions) tourist visitors (millions) 2.0 2.0 1.5 1.5 1.0 1.0 0.5 0.5 0 0 1970 1980 1990 2000 2010 year Fig. 13 Use information from Figs 12 and 13 to describe and explain the main changes in the

.....[5]

[Total: 8 marks]

For

.....[1]

number of tourist visitors to the area over the period shown.

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