

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME			
	CENTRE NUMBER		CANDIDATE NUMBER	
* 4 1	GEOGRAPHY			0460/23
7 2 8	Paper 2			May/June 2010 1 hour 30 minutes
0	Candidates answer	r on the Question Paper.		
л 9 9 *	Additional Material	s: Ruler Protractor Plain paper		

1:50 000 Survey Map Extract is enclosed with this question paper.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.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 Photograph A for Question 4.

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.

For Examiner's Use				
Q1				
Q2				
Q3				
Q4				
Q5				
Q6				
Total				

This document consists of 14 printed pages, 2 blank pages and 1 Insert.



- 1 The map extract is for Mandama, Zimbabwe. The scale is 1:50000.
 - (a) Fig. 1 shows the position of some features in the south east part of the map extract. Study the map extract and Fig. 1 and answer the questions below.



For Examiner's



(b) Fig. 2 shows the coal mining area in the north east of the map extract.

3

(c) Look at the large rivers in the western part of the map extract.
(i) Find the major river confluence (junction) one kilometre south of Gobo Sulphur Springs. Give the six figure grid reference of the confluence.
[1]
(ii) State the general direction of flow of the Kwizizi river. Give one reason for your answer.
Direction of flow.
Reason.

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(d) Fig. 3 shows an area in the central part of the map extract. Describe the relief and drainage of this area.

5



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2 Fig. 4 is a map showing plates, plate margins, and the directions and speeds of plate movement.

Key

- ____ plate margin
- plate movement
- 2.3 speed of plate movement in centimetres per year.

Fig. 4

(a)		e places, 1 – 5 , are marked on Fig. 4. For each question write on You may use any of the numbers 1 – 5 once, more than once or r		ach	For Examiner's Use
	Whi	ch number on the map shows a:			
	(i)	place where earthquakes occur;		[1]	
	(ii)	place where no major earthquakes occur;		[1]	
	(iii)	place where plates are moving towards each other;		[1]	
	(iv)	fold mountain chain;		[1]	
	(v)	place where plates are sliding past each other;		[1]	
	(vi)	subduction zone;		[1]	
(vii)	place where sea floor spreading is happening?		[1]	
(b)		South Atlantic Ocean is getting wider. Using information from Fig th wider the ocean is getting each year. State the correct units in y		now	
				. [1]	
			[Total: 8 ma	rks]	
					1

- 3 Industries are classified as primary, secondary or tertiary.
 - (a) Complete the following table by giving an example of an industry in each sector.

Sector	Example of an industry
primary industry	
secondary industry	
tertiary industry	

(b) Fig. 5 is a graph used to show the percentages of people employed in the different sectors. The numbers for United Kingdom in three years are shown.



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[3]

(i) In Bangladesh, 58% are employed in primary industry, 17% in secondary industry and 25% in tertiary industry. Plot this information on Fig. 5 using a labelled dot. [2]

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(ii) The percentages employed in the different sectors change as a country becomes more developed. Fig. 5 shows information for the United Kingdom in 1900, 1940 and 1980.

Use this information to describe how the United Kingdom's employment structure changed between 1900 and 1980. You do not need to quote figures in your answer.

[Total: 8 marks]

	graph A (Insert) shows a waterfall and the surrounding area.
(a) De	escribe the physical features of the area shown in the photograph.
	[5]
(b) E> fu	xplain how river processes may cause the position of the waterfall to change in the ture.
	[3]

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	And Brend	E Land	Tropic of Cancer Equator
N Key area of food shortage	Eth	iopia	Tropic of Capricorn

5 Fig. 6 shows the distribution of areas that have experienced food shortages in recent years.



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(a) Describe the distribution of the areas that have experienced food shortages.

[3]

(b) Fig. 7 provides information about Ethiopia, a country whose location is shown on Fig. 6.

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Ethiopia

Ethiopia, an LEDC in East Africa, has suffered from long term food supply problems. However in 2006, cereal and pulse (peas and beans) production was estimated to be about 46% above the average of the previous four years. The increase was partly due to well-distributed rainfall at the right time in the main crop producing areas, and to an increased area under cultivation.

Attempts have also been made to increase cereal production. Increased use of improved seeds and rapid control of pests have been successful. Cereal prices throughout 2006 were higher but more stable than in previous years. Attempts have also been made to make cereal prices stable by local purchases of food aid and a gradual release of crops to the market by farmers and cooperatives.

Despite the good harvest in 2006, many people required emergency food assistance. Of urgent concern was the food situation of 1.5 million people, mainly pastoral farmers, in south-eastern Ethiopia, due to failed seasonal rains. Pre-famine conditions were reported, including widespread human and livestock migrations, poor livestock condition and cases of livestock deaths.

Fig. 7

[Total: 8 marks]

6 Table 1 gives information about the population of India. The figures shaded are estimates of future trends.

199329111.821-0.0081.81319982791.793-0.0071.78620032471.698-0.0051.69320082261.582-0.0051.57720132061.451-0.0051.44620181951.336-0.0041.332	Year	Births per 1000	Deaths per 1000	Natural increase (%)	Migration (%)	Growth rate (%)
20032471.698-0.0051.69320082261.582-0.0051.57720132061.451-0.0051.446	1993	29	11	1.821	-0.008	1.813
2008 22 6 1.582 -0.005 1.577 2013 20 6 1.451 -0.005 1.446	1998	27	9	1.793	-0.007	1.786
2013 20 6 1.451 -0.005 1.446	2003	24	7	1.698	-0.005	1.693
	2008	22	6	1.582	-0.005	1.577
2018 19 5 1.336 -0.004 1.332	2013	20	6	1.451	-0.005	1.446
	2018	19	5	1.336	-0.004	1.332
2023 17 5 1.229 -0.004	2023	17	5	1.229	-0.004	

Table 1

Key

– = outward migration

- (a) (i) Complete Table 1 by adding the growth rate projected for 2023. (Population growth rate = natural increase ± migration). [1]
 - (ii) Describe how population migration from India has changed over time.
 -[1]
 - (iii) What effect is migration having on India's total population?
 -[1]
- (b) Fig. 8 (below) shows India's changing birth and death rates. Use the information in Table 1 to complete Fig. 8.
 [2]





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Examiner's Use (c) Fig. 9 shows the demographic transition model. Use Figs 8 and 9 to suggest which stage of the model applies to India. Give reasons for your answer:





[Total: 8 marks]

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