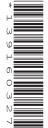


## **Cambridge International Examinations**

Cambridge International General Certificate of Secondary Education

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		



**GEOGRAPHY** 0460/23

Paper 2 May/June 2015

1 hour 30 minutes

Candidates answer on the Question Paper.

Additional Materials: Ruler

> Protractor Plain paper Calculator

1:50 000 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 an HB pencil for any diagrams or graphs.

Do not use staples, paper clips, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

The Insert contains Photographs A, B and C for Question 2.

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.

The syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

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



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- 1 Study the map extract, which is for Rosenfels, Zimbabwe. The scale is 1:50 000.
  - (a) Fig. 1 shows some of the features in the north west part of the map extract.

Study Fig. 1 and the map extract and answer the questions below.

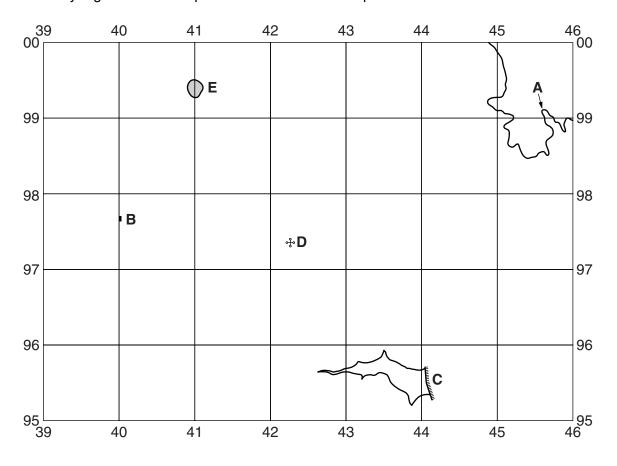


Fig. 1

Using the map extract, identify the following features shown on Fig. 1:

(i)	the height of	the land show	n by feature <b>A</b> ;

.....[1]

(ii) feature B;

[1]

(iii) feature C;

[1]

(iv) the human feature D;

[1]

(v) the natural feature at the surface of the small hill **E**.

.....[1]

(b) Describe the relief feature named Kezi in the area shown on Fig. 2.

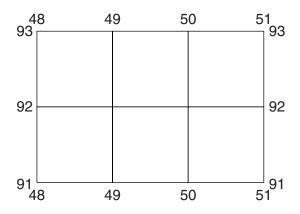


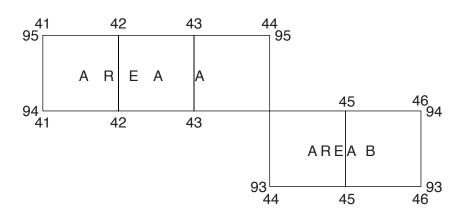
Fig. 2

 	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
		[3.

(c) Study the two named rivers in the centre of the area, the Mwewe and the Babuli. The table below compares features of the two rivers. Complete the table by putting ticks (✓) in the correct **four** boxes. Use only **one** tick for each row.

	Mwewe	Babuli	Both of these rivers	Neither of these rivers
Example – meander			1	
rapids				
islands				
many tributaries				
flows from south east to north west				

(d)	(d) (i)	State <b>one</b> piece of map evidence that suggests that farming is an important activithe south and west of the area in the map extract.	ty in
			[1]



(ii) Fig. 3 shows two areas, A and B, in the south of the map extract.

Fig. 3
Study these areas and compare them under the headings in the table below.

	Area A	Area B
services present		
settlement pattern		

[3]

(e)	(i)	Give the six figure grid reference of the spot height 1032 by the side of the tarred road in the south east of the map extract.
		[1]

(ii)		e Babuli river	_		•	eight 1032 to the is nearest to your
	13	00 m 1	1600 m	1900 m	2200 m	[1]
(iii)		50 metres to	the north of it.	······································		nd the spot height
						[1]
(iv)	State the com the eastern ed		•	dastral bound	ary from the sp	ot height 1032 to
						degrees [1]
						[Total: 20 marks]

Pho	otographs A, B and C (Insert) show some features of Salt Lake City in the USA.
(a)	Photograph A was taken in the Central Business District (CBD). Give <b>two</b> pieces of evidence for this.
	1
	2
	[2]
(b)	Using Photographs A, B and C, describe ways in which the city planners have tried to reduce traffic congestion and increase road safety in Salt Lake City.
	[4]
(c)	Describe the relief of the site of Salt Lake City and the relief of the land around it, as shown on Photographs A, B and C.
	site
	land around
	[2]
	[Total: 8 marks]

**3** Fig. 4 shows earthquakes with magnitude (strength) of 5.0 and above on the Richter Scale that occurred in one week in April 2013.

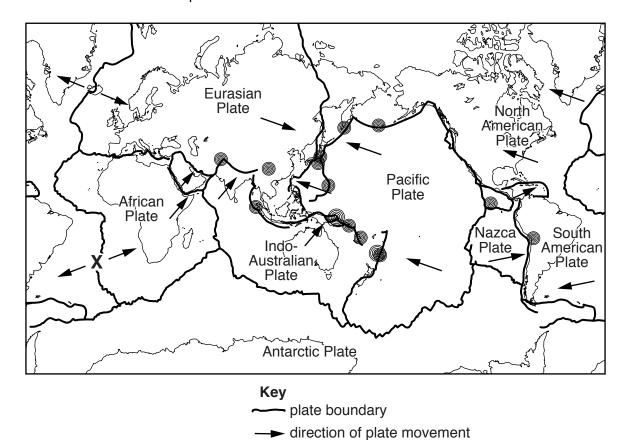


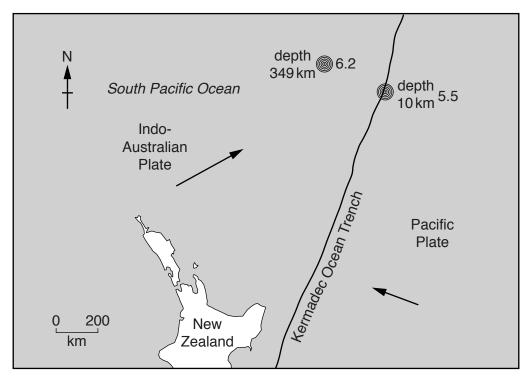
Fig. 4

earthquake (magnitude 5.0 and above on the

Richter Scale)

(a)	Name the type of plate boundary at <b>X</b> .	
		[1]
(b)	With reference to plate boundaries, describe the distribution of the earthquakes showing 4.	

(c) Fig. 5 shows an area of the South Pacific Ocean, together with information about the deepest earthquake and shallowest earthquake that occurred in the week in April 2013. Fig. 6 is a section through the Earth's crust on which the positions of earthquakes during the week have been plotted.



depth 349 km 6.2 plate boundary/Kermadec Ocean Trench earthquake location, depth of focus below the surface of the Earth's crust (km) and magnitude on the Richter Scale

direction of plate movement

Fig. 5

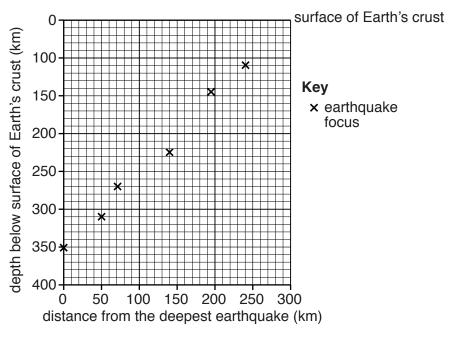


Fig. 6

shallowest earthquake in the week occurred at a depth of 10km and was 290 by from the deepest earthquake. Use this information to plot the position of the llowest earthquake on Fig. 6.
k at Fig. 6. What is the relationship between the depth of the earthquakes and tance from the line of the Kermadec Trench?
the information on Figs 5 and 6 to name the type of plate boundary shown on Fig
ne a process that is occurring along this plate boundary to cause earthquakes h different depths.
[Total: 8 mar

4 (a) Fig. 7 shows information about the weather for one day in April 2014 at a place in Sri Lanka.

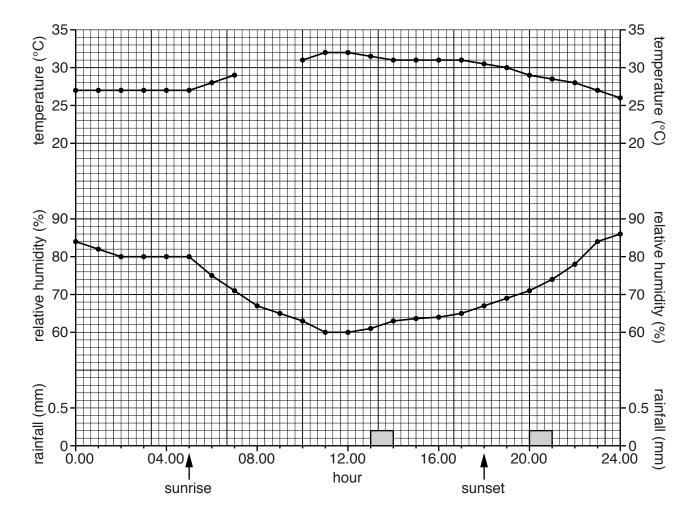


Fig. 7

(i) Use the information in Table 1 to complete the temperature measurement on Fig. 7.

Table 1

Hour	Temperature (°C)
8.00	30
9.00	30.5

[1]

(ii) Draw a bar on Fig. 7 to show that 0.5 mm of rain fell between 12.00 and 13.00 hours. [1]

(iii) Use the information in Fig. 7 to complete the table below in the spaces provided.

	Value	Hour(s)
lowest temperature	26°C	24.00
highest temperature	°C	
daily temperature range	°C	
lowest humidity	60%	between 11.00 and 12.00
highest humidity	%	

1	(iv)	Explain the temperature variations shown on Fig. 7.
		[1]
	(v)	Use the data in Fig. 7 to complete the following sentence:
		As temperature rises, the relative humidity[1]
(b)		ch of the data on Fig. 7 was obtained using an instrument located outside the Stevenson een?
		[1]
		[Total: 8 marks]

[3]

5 Study Table 2, which gives information about Ivory Coast, a country in tropical Africa.

Table 2

Region	Rainfall	Soils	Main agriculture
northern half of the country	heavy but unreliable from June to October	light and loose	nomadic pastoralism
	dry from November to May and droughts occur		
southern half of the country	rain in all months	good quality clay	mainly arable

			and	droughts occur			
southern half of the country		rair	n in all months	good quality clay	mainly arable		
(a	) (i)		•			different land uses were fo e three slopes were:	und to
			bare so	oil c	ultivation	pasture	
			e spaces of erosion	•	e below, write the la	nd use most likely to result	in the
	Rate of soil erosion (tonnes per year per hectare)		er year		Land use		
		90					
		100	)				
		140	)				<b>501</b>
	(ii)	Expla	ain how tr	ees help to prevent	soil erosion.		[2]

	se the information in Table 2 to explain why soil erosion is likely to be a serious problem in e northern half of the country.
•••	
	[3]
	[Total: 8 marks]

6 Fig. 8 shows the numbers employed in the shipbuilding industry of Brazil between 2000 and 2011.

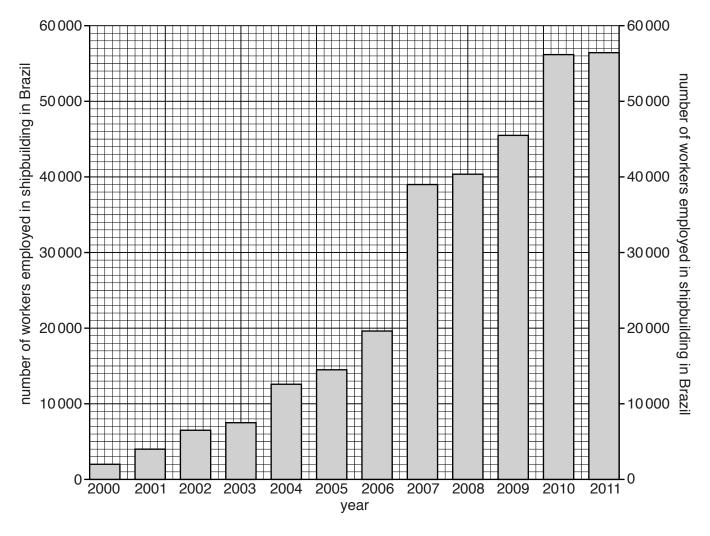


Fig. 8

(a)	(i)	State the number of workers employed in the shipbuilding industry of Brazil in 2007.		
		[1]		
	(ii)	Using Fig. 8, describe the changes in the numbers employed in shipbuilding in Brazil from 2000 to 2011. Do <b>not</b> give a year by year account.		

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