		Name BE INTERNATIONAL EXAMINATIONS Partificate of Secondary Education
	ENTAL MANAGEME	
Paper 2		May/June 2006
Candidates ans Additional Mate	wer on the Question Pap rials: Ruler	1 hour 45 minutes ber.

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.

Answer **both** questions. The number of marks is given in brackets [] at the end of each question or part question.

For Exam	iner's Use
1	
2	
Total	

(a) During the 1990s, 600,000 people died in natural and human disasters. 1

% deaths by disaster type

- 34 **Tropical cyclones**
- Floods 18

5

- 16 Earthquakes
- 14 **Disease epidemics** 13
- www.papaCambridge.com Human disasters (e.g. transport and industrial)
 - Other natural disasters (e.g. volcanoes)



- Plot the percentages in the block graph and complete the key. (i)
- (ii) Explain why disease epidemics often follow from a disaster.

.....[3]

[4]

(h) (i)	3
(D) (I)	What is the difference between an earthquake and a volcano?
	3 What is the difference between an earthquake and a volcano?
	[3]
(ii)	Why are more people killed by earthquakes than volcanoes?
	[3]
(iii)	Name two strategies for preventing loss of life during an earthquake.
	1
	2[2]
(iv)	Why are these strategies usually more effective in developed than in developing countries?

(c) The map shows the track of Hurricane Ivan through the Caribbean in September Its track was similar to the ones followed by many other tropical storms in Caribbean.



(i) Where was Hurricane Ivan formed?[1] (ii) Give reasons why tropical storms form in places such as this in the northern hemisphere in September.[3] (iii) In which directions did Hurricane Ivan move after its formation?[1] (iv) The number of deaths caused by Hurricane Ivan were as follows; Grenada 34; Jamaica 16; Cayman Islands 11; Cuba 0.

On the outline map below, write in the number of deaths in each location.

5



What is the trend? (v)

>[1]

(d) Read the following newspaper headlines and reports about Hurricane Ivan.

On September 9

Hurricane Ivan devastates Grenada 90% of houses destroyed, 60,000 homeless

Reporter – 'The Spice Island looks like a wasteland of ruined properties and damaged vegetation'.

Tourist - I flew to Grenada expecting a luxurious holiday of sun and sea, peace and quiet, of day trips into the beautiful interior with its vegetation covered hills. During the hurricane, I lay awake, trembling at every bang and sweating with fear'.

Local man who had lost all – 'The hurricane has gone, people are dead, but there is no water, no electricity, no food – who will help rebuild paradise?'

On September 10

In Jamaica people wait in fear for 225kph Ivan to sweep in

On September 11

Ivan the Terrible brings deadly fury to Jamaica

On September 12

200kph winds and massive high waves batter the Cayman Islands Cubans brace themselves for Ivan

Government of Cuba orders evacuation (removal) of half a million people from the western tip of the island.

Cubans instructed by the government to store essential supplies of food and water, board up windows and move to hurricane shelters.

For Examiner's Use Use Canabation Canabation

www.papacambridge.com 7 (i) Before Hurricane Ivan arrived, the government of Cuba ordered four ac save lives. Write these on the branches of the spider diagram below. Cuban Government measures against Hurricane Ivan (ii) In your view, which action was most important for saving lives? Explain your choice.[2] (iii) Why was it easier for the government of Cuba to be well prepared for Hurricane Ivan than the government and people of Grenada? Explain as fully as you can.[3] (iv) What were the urgent problems for the government and people of Grenada, immediately after the hurricane?[2]

	42	
	8 Describe what was needed to try to overcome these problems. [2]	For Fxaminer's
(v)	Describe what was needed to try to overcome these problems.	Use
		Shido.
		Se.con
	[2]	
(vi)	Before Hurricane Ivan, the main income of Grenada came from the export of crops (mainly spices from bushes and trees) and tourism.	
	How badly will the economy of Grenada be affected over the next two or three years as a result of Hurricane Ivan? State and explain the possibilities.	
	[5]	
	[Total: 40]	

2 (a) Look at the world map of malnutrition. It shows where people are at risk from food.



Describe what the map shows about malnutrition in

(i) developed countries in the rich world;

..... (ii) developing countries in the poor world.[4]

.....

Causes of poverty in rural areas

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		10	For Examiner's	
	erty among people eloping countries.	living in rural areas is one of the	e main causes of malnut.	
	C	Causes of poverty in rural areas	13ge	
Sa	linisation	Soil Erosion	Desertification	3
Increasin	g soil salt levels	Topsoil washed or blown away	Farmland less productive	7
Shortag	e of farmland	Drought	Floods	
Many farr their own	ners do not own Iand	Rainfall less than expected	High water levels in rivers	
(i)	Name an area wh	ere salinisation is a major probler		
(ii)	Give reasons for it	ts occurrence in the area named.	[1]	
			[3]	
(iii)		strategy for reducing poverty. For strategy be used?	which one of the six causes of	
			[1]	
(iv)	Why is it impossib	le for people to stop all droughts	and floods?	
(v)		t of farmland by people causes a which farmers cause soil erosior		
	2		[2]	

www.papaCambridge.com 11 (vi) Choose a different method of soil conservation that can be used in crop 3 areas for each of the following locations. Describe how each one helps to stop erosion. 1 On steep hillsides Method chosen 2 In flat lowland areas with low rainfall Method chosen[4] (c) Study the flow diagram. Lack of economic growth Rural - urban migration in the country Cities full of people Many people seeking work High rates of unemployment Shortage of low cost housing Growth of slums and shanty towns (i) Explain how the flow diagram shows that poverty results in the growth of slums and shanty towns.[3]



In the frame below draw a labelled sketch to show the main features of the houses and lay-out.

[4]

	Mary Mary	
	13	For Examiner's
(iii)	13 Describe strategies for improving shanty town environments, such as the on photograph. Refer to a named example in your answer.	Use
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		.com
		1
	[5]	

- planting trees on bare slopes
- building small dams across streams
- · 'harvesting rainwater' by collecting it in tanks

		2	www
	14		2.4
) (Case study of a drainage basin project in a village in Gujarat (India)		
14 Case study of a drainage basin project in a village in Gujarat (India) This small scale project, which started in 1991, involved • planting trees on bare slopes • building small dams across streams • 'harvesting rainwater' by collecting it in tanks			
		Before 1991	In 2001
	Drinking water wells with all year supplies	0	23
	River dams	0	1
	Months of water availability	4	12
	Land under cultivation (hectares)	85	135
	Number of crops per year	0—1	2–3
	Agricultural production (yield per hectare)	900	4,000
	Out-migration rate (% of working men)	78	5
	Average period of out-migration (months)	10	2
	Income per household (rupees per year)	8,590	35,620

(i) There was a big increase in farm output in the village between 1991 and 2001. State two pieces of evidence from the table which show this.





[Total for paper: 80]



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