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	International General Certificate	INTERNATIONAL EXAMINATIONS of Secondary Education	andrie
CANDIDATE NAME			
CENTRE NUMBER		CANDIDATE NUMBER	
ENVIRONMEN	ITAL MANAGEMENT	06	80/22
Paper 2		May/June	2012
		1 hour 45 mi	nutes
Candidates and	swer on the Question Paper.		
Additional Mat	orials: Bulor		

Additional Materials: Ruler

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 IN ANY BARCODES.

Answer both questions.

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		
1		
2		
Total		

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







	433	
	4	
(iv)	4 Suggest a reason why the temperature in June and July is lower than although the sun is shining from a higher angle in the sky in mid-summer. [1]	Ibri
	[1]	1900
(c) (i)	Farming in the Philippines is dominated by crop growing. Describe how the climate is favourable for crop growing.	
	[3]	
(ii)	Rice is the most important food crop grown in the Philippines, the staple food in most of the country. Along with corn (maize) it accounts for half of the total crop area. Another quarter of cropland is planted with coconuts, an important export earner. Smaller amounts of sugar cane and pineapples are also exported.	
	From the crops named, give one example of a subsistence crop and one example of a commercial crop in the Philippines.	
	subsistence crop	
	commercial crop[1]	
(iii)	What are the main differences between subsistence and commercial types of farming?	
	[2]	
(iv)	The system of farming often used for growing crops such as coconuts and sugar cane is plantation farming. Describe some of the distinctive characteristics of plantation farming.	

(d) Look at the world map showing main areas of formation and tracks (direct movement) of cyclones.

www.papaCambridge.com Key: Main areas of formation - Main tracks followed of cyclones Describe where the main areas of cyclone formation are located. (i)[3] What is similar about the tracks followed by cyclones as they move away from the (ii) areas of formation?[2] (iii) The main months of the year for the formation of tropical cyclones in the northern hemisphere are between July and November. Give the reasons for this.

Cyclones: main areas of formation and tracks followed

(e) Read the information about two cyclones in East Asia in 2009. Cyclones which the South China Sea are called typhoons.

www.papaCambridge.com Philippines – average income per head per Japan - average income per head per year year US\$1,040 US\$36,170 Typhoon Ketsana September 2009 Typhoon Melor October 2009 nearly 300 deaths 2 deaths from falling trees heaviest rains for over 40 years at least 27 people injured floods affected over 80 percent of gusts of wind up to 198kph were • • Manila, the capital city recorded large parts of Laguna in eastern Manila, violent winds damaged homes and where more than 300,000 people live in uprooted trees; heavy rains increased shanty towns, were still flooded 12 days the risk of landslides later **Comment** – vast flooding was largely **Comment** – after warnings from the Weather the result of insufficient and inadequate Office, many people were evacuated into shelters by the Disaster Management drainage Agency before the cyclone arrived General comment – high numbers of General comment – the threat of natural deaths every year from cyclones creates disasters in developed countries like Japan a cycle of poverty; people are constantly encourages technological improvement to recovering from previous cyclones, making make the effects of the next cyclone less it more difficult for them to afford to take damaging than those of previous cyclones preventative measures ready for the next one

Explain why cyclones, like these two Asian typhoons, are dangerous for people and (i) can lead to considerable loss of life and injury.

 	 [3]

	12	
	7	
(ii)	 7 The UN (United Nations) estimates that total numbers of people affected by cyclones each year in the Philippines Japan are similar, 17 times more people die in the Philippines from cyclones than in Japan. With the help of the information given in the boxes, explain as fully as you can why more people die in the Philippines from the effects of cyclones than in Japan. 	bidge
	With the help of the information given in the boxes, explain as fully as you can why more people die in the Philippines from the effects of cyclones than in Japan.	Con
	[5]	
(iii)	Is it ever going to be likely that all deaths from cyclones can be avoided? Explain your view about this.	
	[2]	
	[Total: 40 marks]	

www.papacambridge.com (a) Look at the graph showing the importance of different energy sources in 2009. 2

World energy consumption by source (2009)



- On the graph, shade in the sectors showing energy from fossil fuels. (i) [1]
- (ii) Describe what the graph shows about the importance of fossil fuels for world energy consumption in 2009.



.....[1]

- www.papaCambridge.com 9 (b) Look at the diagrams which show one method used for mining coal. **Coal mine** surface towers Α other rocks 100000 coal seam Shafts train coal cutter **Coal cutter** В
- - (i) What is the purpose of the shafts and towers shown on diagram A?

(ii) Using both diagrams, describe how the coal is being mined.

www.papaCambridge.com 10 (iii) Would you describe this as an old or a modern coal mine? Explain your and[2] (c) Mining is dangerous work. Read this newspaper report about what happened in a Chinese coal mine in March 2010. 123 workers trapped by flooding The vast Wangjialing coal mine 25 people died in a coal mine fire in northern China is estimated to in central China. Last November. have 2.3bn tonnes of coal reserves, 108 men were killed when an including over 1 billion tonnes explosion blasted through a coal of proved reserves. Yesterday mine belonging to another state underground water rushed into owned company. 2009 was a bad the mine where 261 people were year; there were two other explosions working. Only 138 managed to which killed more than 50 workers. escape the flood waters. Safety standards are often ignored China's coal mines are well known to try to meet the ever rising demand for being some of the world's most for coal. Coal supplies 70 per cent of dangerous. Earlier this month, China's energy needs. State the four different reasons for the loss of life in China's coal mines, mentioned (i) in the newspaper report.[2] (ii) Explain why the dangers of working in opencast coal mines are less than in deep mines.[3]

	11 Suggest reasons why mining safety is much better in some countries than in	
	11	
(iii)	Suggest reasons why mining safety is much better in some countries than in	
		origo
		Sec.
		13
	[4]	

- (d) (i) Coal is often said to be a dirty fuel compared with other fuels. One type of particular for which coal fired power stations are blamed most, is acid rain. Name the gases from coal fired power stations which cause acid rain.
- www.papaCambridge.com (ii) The map shows acid rain and its effects in part of Europe. It was most serious in the 1970s.



Acid rain in northern Europe

How does the map show that acid rain can be an international problem?

.....[1]

(iii) Explain fully why the trees in the north of the UK on the map are shown in a different way from those in Sweden.

www.papacambridge.com The problem of acid rain in northern Europe is less now than it was in the 19 (e) (i) Describe what has been done to reduce the problem of acid rain pollution from co fired power stations.[2] (ii) Why is finding a solution to acid rain and other types of air pollution slower because they are international problems instead of just being a national problem?[3]

www.papaCambridge.com 14 Look at the divided bar graphs showing how electricity is produced in three (f) European countries. (They are named on the map of acid rain). Percentage of electricity production by source in Iceland, Norway and Sweden (2008) 100 90 80 Key: 70 HEP geothermal 60 natural gas percentage 50 nuclear 40 wind and other renewables 30 20 10 0 Iceland Norway Sweden How much of Iceland's electricity comes from renewables? (i)[1] (ii) Look back to the pie graph of world energy consumption in part (a). How important are renewables for electricity production in these three north European countries compared with their importance in total world energy consumption? _____[3]

4333 A	
15	
Give reasons why types of renewable energy sources, and amounts use greatly between different countries.	bride
	C.Com
[5]	
[Total: 40 marks]	
	Give reasons why types of renewable energy sources, and amounts use greatly between different countries.



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