		ANNA Dabac
	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATION International General Certificate of Secondary Education	SUT.
CANDIDATE NAME		
CENTRE NUMBER	CANDIDATE NUMBER	
	ITAL MANAGEMENT	0680/01
Paper 1		May/June 2008
		1 hour 30 minutes

Additional Materials: Ruler

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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 **all** 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				
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This document consists of **11** printed pages and **1** blank page.



The table below shows information about three rivers in Australia. 1

The table below shows information about thr	2		Mary 300 000 000	30
River	Tia	Apsley	Mary	amb
Average Daily flow (litres)	46 000 000	10000000	300 000 000	
Catchment Area (hectares)	23000	100000	1 000 000	
Flow/area (litres/hectare)	2000	100		

- (a) (i) Which of these rivers has the largest catchment area?
 -[1]
 - (ii) Calculate the average flow in litres/hectare for the Mary.

.....[1]

(iii) Which river provides the most efficient water supply? Give a reason for your answer.

.....

.....[2]

(b) The Mary River is in Queensland, NE Australia. This area has been suffering its worst drought in a 100 years. One suggested solution is to dam the Mary River. Below is a quote from a leaflet produced by a group who are against this dam.

"We understand that people need water solutions BUT Traveston Crossing Dam on the Mary River is NOT one of them"

Suggest three reasons why people living in the Mary River valley might be against (i) the Traveston Crossing dam.

.....[3] (ii) Another way to obtain more water for the area would be by desalination. Briefly describe the desalination process and suggest characteristics of a country that would allow it to produce water by this process.

www.papaCambridge.com 3 Look at the graph below showing the effect of water supply on yield of grain grow 2 desert area in Arizona (USA). grain yield/millions of tonnes 5000 4000 3000 2000 1000 0 6 8 10 12 14 16 18 20 4 irrigation/units of irrigation water (a) (i) How much water should be supplied to barley for the best yield? irrigation units [1] (ii) Suggest reasons why adding too much water reduces yield.[2] (b) Interaction between salt in the soil and irrigation water can increase salination. (i) Explain how irrigation increases salination.[2] Development of agricultural land often requires the removal of native plants. Explain (ii) how this might increase salination.[2]



www.papaCambridge.com 5 In a number of countries, such as Brazil and Australia, ethanol is mixed with petrol for 3 motor vehicles. One benefit of this is that ethanol is a renewable source of energy. (a) (i) Explain what the term *renewable* means.[2] (ii) A leaflet describing the advantages of adding ethanol to petrol says: 'ethanol blended fuels can help to reduce the amount of dangerous chemicals in the atmosphere' Name two dangerous chemicals which are emitted from car exhausts.[2] Choose one of these chemicals and describe its effects on people and the (iii) environment. People Environment[3] (b) How can the effects of air pollution by motor vehicles be reduced by people and governments? People Governments[3]



Study the graph below which shows how the yield of wheat has changed in three co 5 over the past 55 years.



.....[1]

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	9	
(b)	Describe and explain two problems resulting from the Green Revolution.	×
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		וו
	[4]	



.....[1]



(c) The pictures above show open cast coal mining. The original poster had a third picture showing how the land was reclaimed after mining had finished. Using your knowledge of reclamation describe or draw what you think that picture might have looked like.



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