

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

ENVIRONMEN	TAL MANAGEMENT		0680/21
CENTRE NUMBER		CANDIDATE NUMBER	
CANDIDATE NAME			

Paper 2

May/June 2017

1 hour 45 minutes

Candidates answer on the Question Paper.

No Additional Materials are required.

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 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 both questions.

Electronic calculators may be used.

You may lose marks if you do not show your working or if you do not use appropriate units.

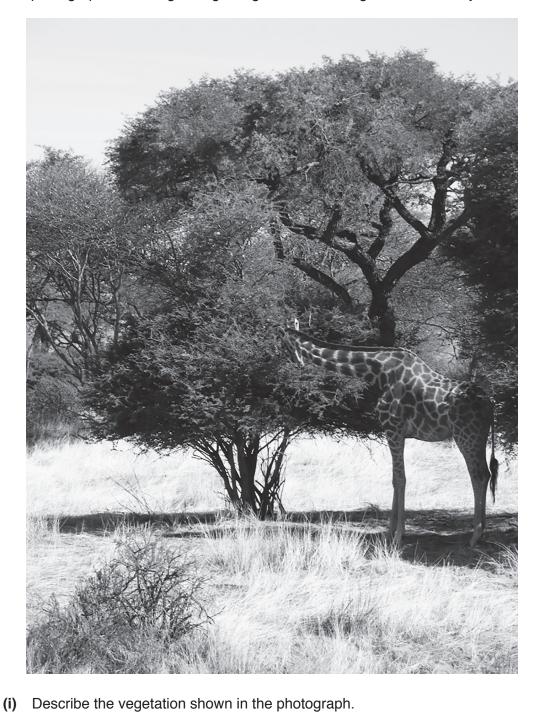
At the end of the examination, fasten all your work securely together.

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



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	atmo	ospheric p	ressur	re											
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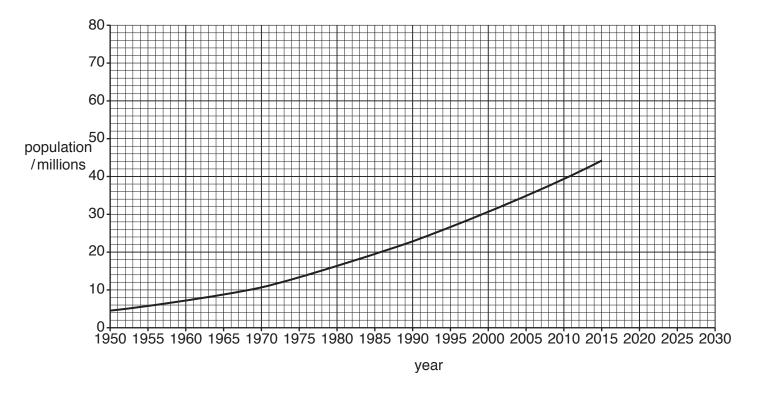
(c) The photograph shows a giraffe grazing on savanna vegetation in the dry season.



Describe the vegetation shown in the photograph.	
	[3]

(ii)	Suggest how the vegetation will change in the wet season.
	[2]
(iii)	The photograph shows producers and a consumer.
	Define both these terms.
	producer
	consumer
	[2]
(iv)	Parts of the savanna are increasingly being grazed by goats and cattle.
	Suggest how this will affect the ecosystem shown in the photograph.
	INI

(d) The graph shows the population of Kenya from 1950 to 2015.



(i) :	State the	population	of Keny	a in 1950	and in 2015
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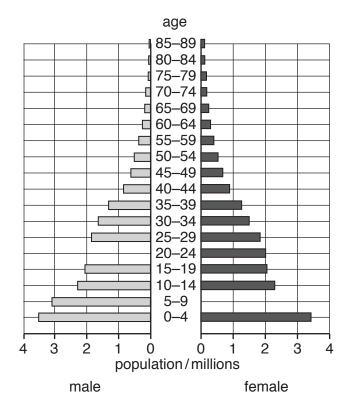
population in 1950	 million
population in 2015	 million
	L—.

(囬) Use the gr	aph to pred	lict the p	opulation of	f Kenv	⁄a in 2030
•	/	, 000 1110 91	apri to prod	not thio p	opalation of	,	a 2000

 	million [1]

(iii)	Explain wh countries.	y population	growth	continues	to	increase	rapidly	in	many	developing
				•••••			•••••			
				•••••						

(e) The graph shows a population pyramid for Kenya in 2014.



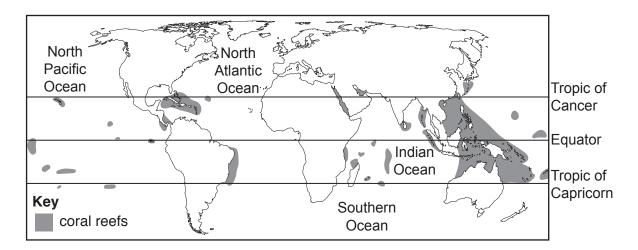
(i) Complete the population pyramid by drawing in the two missing bars.

male age 20–24	2.0 million
female age 5-9	3.1 million

(ii)	Suggest problems Kenya's government may face because of the population structure shown in the population pyramid.
	[4]

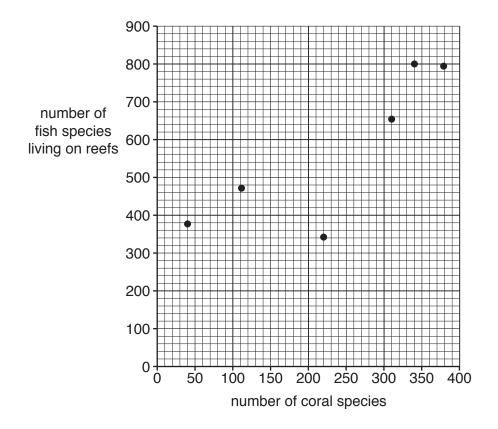
f)	'Reducing the world's population growth is the best way to solve environmental problems.'
	How far do you agree with this statement? Give reasons for your answer.
	91

2 (a) The map shows the location of coral reefs.



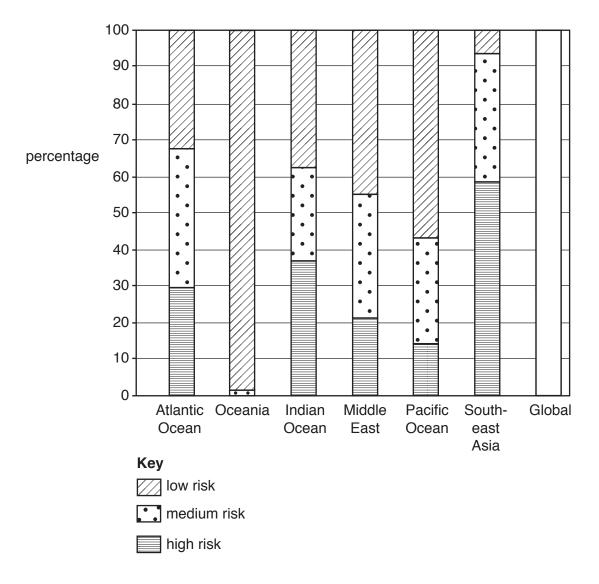
(1)	Describe the location of coral reefs as shown on the map.
	[3]
(ii)	Suggest one reason why coral reefs are not found in the North Atlantic Ocean or the North Pacific Ocean.
	[1]

(b) The graph shows the number of coral species and the number of fish species living on reefs.



Describe the relationship between the number of coral species and the number of fliving on reefs.	ish species
	[2

(c) The graph shows the percentage of coral reefs at risk from overfishing.



(i) Complete the global column using the following figures.

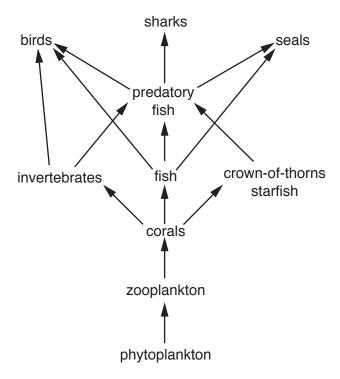
high risk	27%
medium risk	30%
low risk	43%

[2]

(ii) Use the graph to complete the following paragraph.

(iii)	Suggest why the risk to coral reefs from overfishing is higher in some areas than in others.
	[3]
(iv)	Give one reason why the fish catch from the oceans has increased.
	[1]
(v)	Describe strategies that can be used to reduce overfishing.
	[4]

(d) The diagram shows a simplified food web for a coral reef.



I)	State the producer in the food web shown.
	[1]

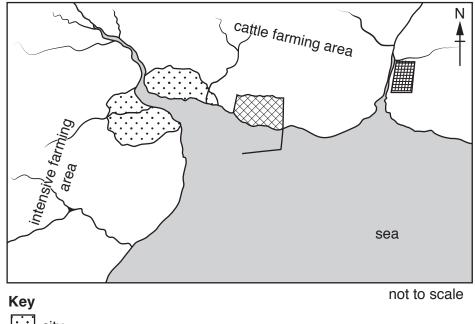
(ii) Complete the food chain diagram.

seals
phytoplankton

[3]

(iii)	Describe the changes to the food chain in (ii) if the number of seals decreased.
	[3]
(iv)	Crown-of-thorns starfish have few predators because they are covered in spines and contain a chemical which tastes unpleasant. In one year each starfish can consume $6\mathrm{m}^2$ of coral.
	Explain why crown-of-thorns starfish can destroy coral reefs.
	[2]

(e) The map shows a coastal area.



Key		not to scale
	city	
	oil refinery	
	lead mine and processing plant	
\supset	rivers	
	harbour	

Explain how each of the following may damage life in the sea.

the oil refinery

farming

lead mining and processing

[6]

Explain why marine pollution is difficult to control.	
	[6]

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