

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

ENVIDONMEN	TAL MANACEMENT		0600/1 <i>2</i>
CENTRE NUMBER		CANDIDATE NUMBER	
CANDIDATE NAME			

ENVIRONMENTAL MANAGEMENT

0680/12

Paper 1

February/March 2018 1 hour 30 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 all questions.

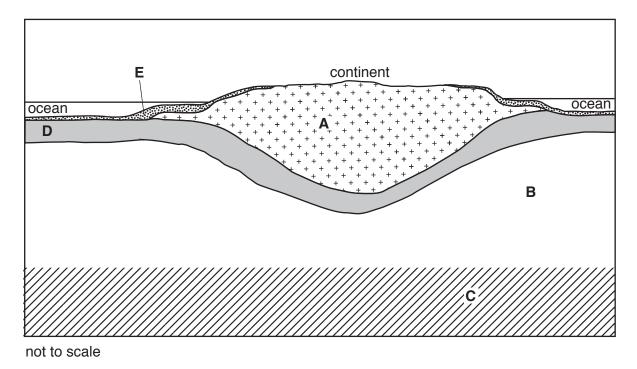
Electronic calculators may be used.

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.

1 The diagram shows features of the Earth's crust.



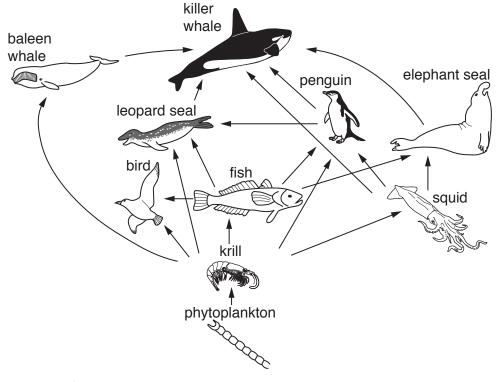
(a) (i) Complete the table using letters ${\bf A}$ to ${\bf E}$ from the diagram.

feature	letter
continental crust	
core	
mantle	
oceanic crust	
sediment	

[3]

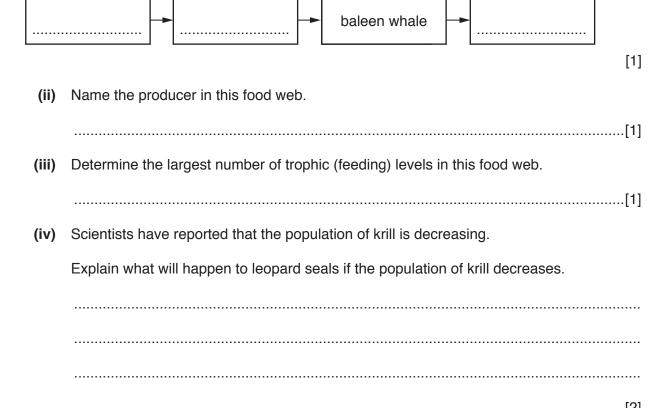
	(ii)	State the meaning of the terms:	
		igneous rock	
		metamorphic rock	
		sedimentary rock	
			[3]
(b)	Mos	et rocks are mined using opencast (open-pit) methods.	
	Des	cribe four impacts of opencast mining on the environment.	
	1		
	2		
	3		
	4		
			[4]

2 The diagram shows part of a food web in the Southern Ocean.



not to scale

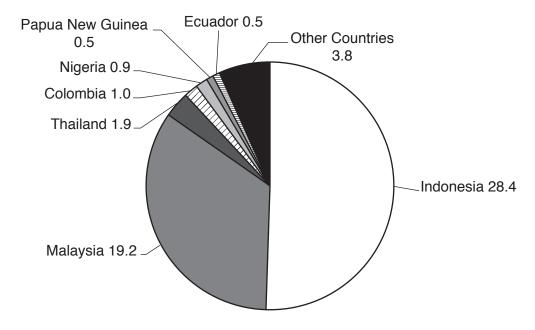
(a) (i) Use the diagram of the food web to complete the food chain.



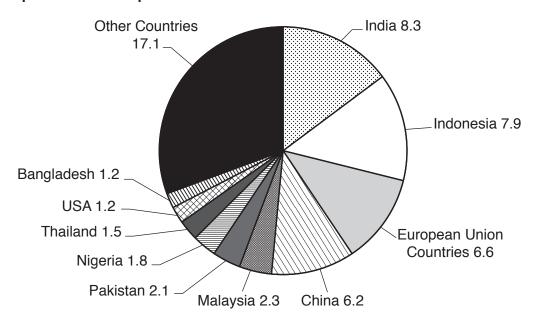
1
2
3
4
(ii) Suggest why most of the marine resources that people use are found on contin shelves.

3 The pie graphs, **A** and **B**, show the production and consumption of palm oil in million tonnes per year. Palm oil is used in food, cosmetics, animal feed and biofuel.

A: palm oil production



B: palm oil consumption



(a) Use the pie graphs to answer the following questions.

(i) Name two countries that are both producers and consumers of palm oil.

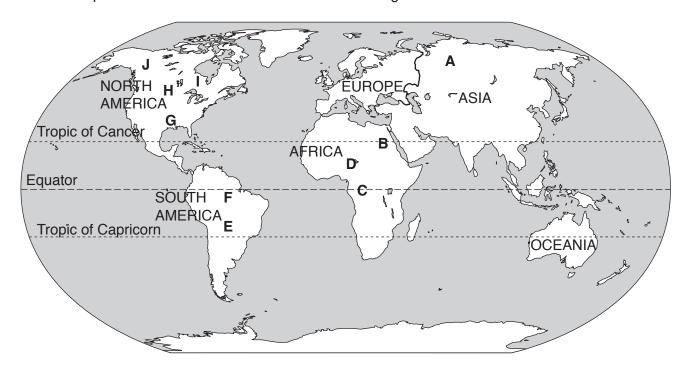
1

2

(ii) The total world palm oil production in pie graph ${\bf A}$ is 56.2 million tonnes.

		Calculate the percentage of palm oil production produced by Indonesia and Malaysia combined.
	(iii) N	
		and [1]
(b)		oil trees grow in an equatorial climate.
		ribe the temperature and precipitation during the year in an equatorial climate.
		[3]
(c)	Some	e tropical rainforests have been cleared for plantations of palm oil trees.
	Sugg	est advantages and disadvantages of replacing tropical rainforests with palm oil trees.
	advar	ntages
	disad	vantages
		[4]

4 The map and table show information about the ten largest wetlands in the world.



letter on map	name of wetland	area/km ²
Α	West Siberian Lowland	2745000
В	River Nile Basin	92000
С	Congo River Basin	189 000
D	Lake Chad Basin	106 000
E	Pantanal	138 000
F	Amazon River Basin	1738000
G	Mississippi River Basin	108 000
Н	Prairie Potholes Region	63 000
I	Hudson Bay Lowland	374 000
J	Mackenzie River Basin	166 000

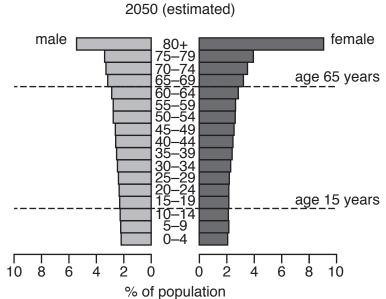
(a) Use the map and table to answer the following questions.

size		 	 	 	 	 	
cont	inent	 	 	 	 	 	

(ii)	Name the continent with the largest number of wetlands and state the number wetlands.	of
	continent	
	number of wetlands	[1]
(iii)	Name the largest tropical wetland.	
		.[1]
(b) (i)	Suggest three reasons why people drain wetlands.	
	1	
	2	
	3	
		[3]
(ii)	Suggest four reasons why wetlands should not be drained.	
	1	
	2	
	3	
	4	
		 [4]

5 The diagram shows population pyramids for Japan in 1950 and 2010 and the estimated population pyramid for 2050.





(a) Use the diagram to answer these questions.

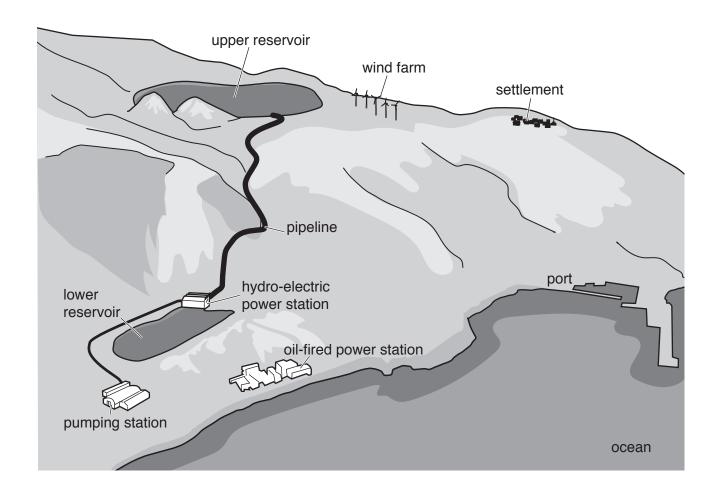
(i)	State the year with the largest percentage of children aged 0 to 14.	
		[1]
(ii)	State the year with the largest percentage of the population aged 30 to 64.	
		[1]

in 2050.

(iii) Determine the percentage of the population that it is estimated will be aged 80 or over

	% [1]
(b)	Describe ways the government of a country with an ageing population can encourage population growth.
	[3]
(c)	State three possible problems for a country with large numbers of young people aged between 0 and 14.
	1
	2
	3
	[3]
(d)	State the name of the model that shows changes in birth rates, death rates and tota population over time in a series of stages.
	[1]

6 The diagram shows energy supplies on the island of El Hierro in the Atlantic Ocean.



(b)	The island of El Hierro is a biosphere reserve.
	Describe the purposes of a biosphere reserve.
	[3
(c)	The island of El Hierro was formed after volcanic eruptions over a million years ago.
	Suggest reasons why people live on this volcanic island.
	[3

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