

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

CANDIDATE NAME				
CENTRE NUMBER		CANDIDATE NUMBER		

ENVIRONMENTAL MANAGEMENT

0680/13

Paper 1

October/November 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.

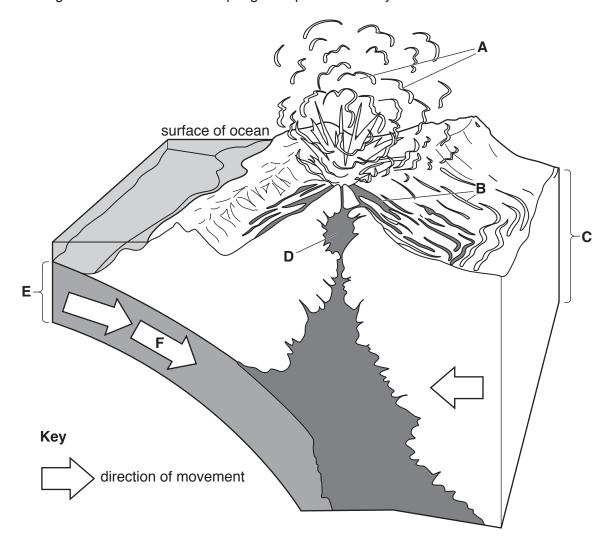
Electronic calculators may be used.

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 a volcano erupting on a plate boundary.



(a) (i) Complete the table using letters A to F from the diagram.

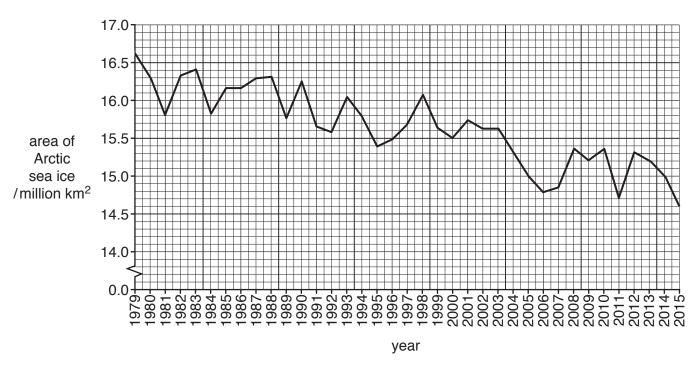
feature	letter
continental plate	
ash and gas	
lava and mud	
magma	
oceanic plate	
subduction	

[3]

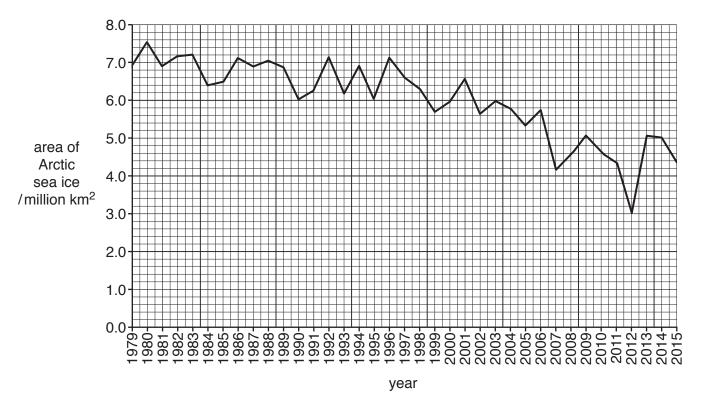
	(ii)	Name the type of plate boundary shown in the diagram.	
(b)	Exp	plain how volcanoes are formed at this type of plate boundary.	
(c)		ggest three hazards for people living on the slopes of an active volcano.	[o
			 [3]

2 The Arctic Ocean is in the Northern Hemisphere. Graphs A and B show the maximum and minimum area of sea ice in the Arctic Ocean between 1979 and 2015.

Graph A, the maximum area of Arctic sea ice

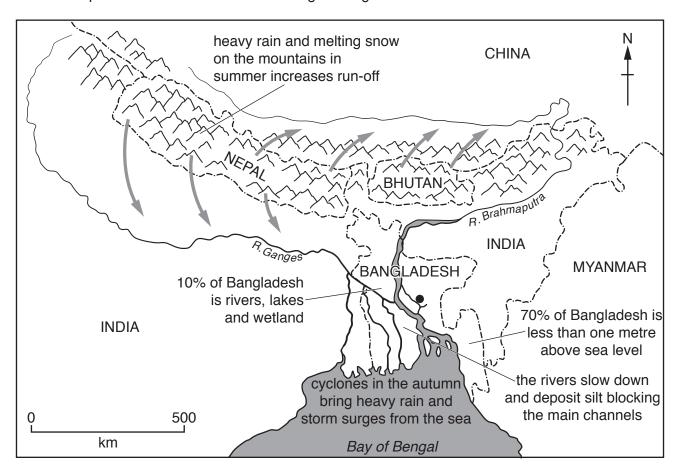


Graph B, the minimum area of Arctic sea ice



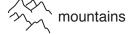
(a)	(i)	State the year with th	e greatest	maximum area of	sea ice.	
						[1]
	(ii)	State the minimum a	rea of sea i	ce in 2012.		
						[1]
	(iii)	Suggest in which mo	nth the data	a for graph B was	s likely to have been co	llected.
	,	Circle your answer.		0 .	•	
		March	May	September	December	[1]
	<i>(</i> 1.)		-	-	December	[1]
	(iv)	State the trend show	n in both gr	aphs.		
						[1]
(b)	Sug	gest three impacts of	rising sea l	levels.		
	1					
	2					
	S					•••••
						[3]
(c)	Exp	lain how human activi	ties alter th	e composition of	the atmosphere.	
. ,	·			·	·	
						[3]

3 The map shows information about flooding in Bangladesh.



Key

capital city



run-off from mountains

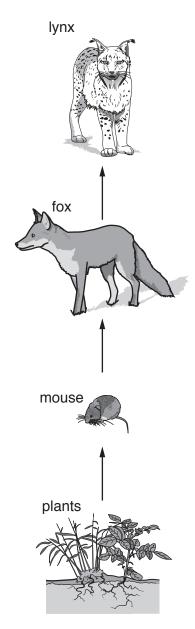
`-_- international boundary

(a)	Use information	on the map to) describe three	reasons for floc	ods in Bangladesh

2
3
[3]

(b)	Explain how deforestation in the mountains shown on the map could increase flooding in Bangladesh.
	[4]
(c)	Tree planting is one strategy to reduce the impact of flooding.
	Suggest one other strategy.
	[1]
(d)	Flooding increases the risk of water-related diseases.
	Suggest two strategies to control water-related diseases.
	1
	2
	[2]

4 The diagram shows a food chain.



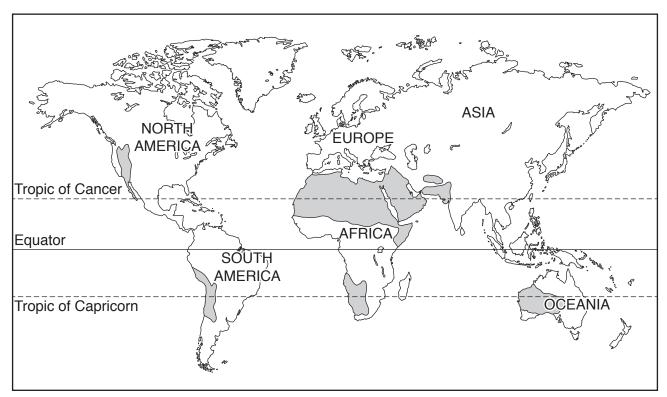
(a) Name a predator, consumer and producer from the food chain diagram.

predator	
consumer	
producer	

[3]

(b)	State four physical factors that affect an ecosystem.	
	1	
	2	
	3	
	4	
		[4]
(c)	Suggest ways in which wildlife might be affected by deforestation.	
		[3]

5 The map shows areas in the world with a hot desert climate.



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N	C	v

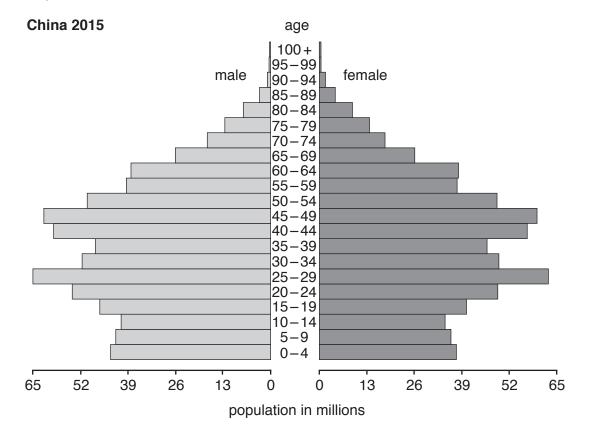
(a)

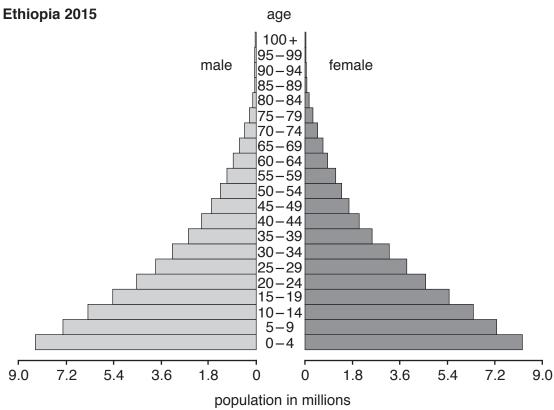
areas with a hot desert climate

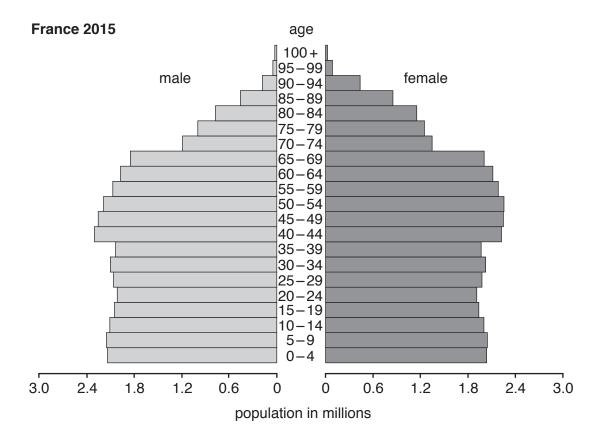
Describe the distribution of areas with a hot desert climate shown on the map.
ro
[3]

) (i) Suggest why few countries in hot desert areas use desalination for fresh water supplies
[2
(ii) Suggest one environmental problem caused by desalination.
[1
) Describe ways, other than by desalination, for improving the quantity of fresh water available
[2
) Explain why some countries have plentiful supplies of fresh water.
[2

6 The diagram shows three population pyramids for 2015.







(a) Use the 2015 population pyramids to answer these questions.

(i)	State the country with the largest population under 15 years of age.		
		[1]	

(ii) State the country with a steadily increasing birth rate.

[4
L .

(iii) Rank the three countries in order of population of males in the age group 25 to 29.

	rank of population of males in the age group 25 to 29	country
highest	1	
	2	
lowest	3	

(b)	State what is meant by the term infant mortality rate.
	[1]

[1]

(c)	(i)	In 1979, China introduced a one-child per family policy to manage population growth. In 2015, the government in China ended its one-child policy.
		Suggest reasons why.
		[3]
	(ii)	Describe three other strategies for managing population growth.
		1
		2
		3
		[3]

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