

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.

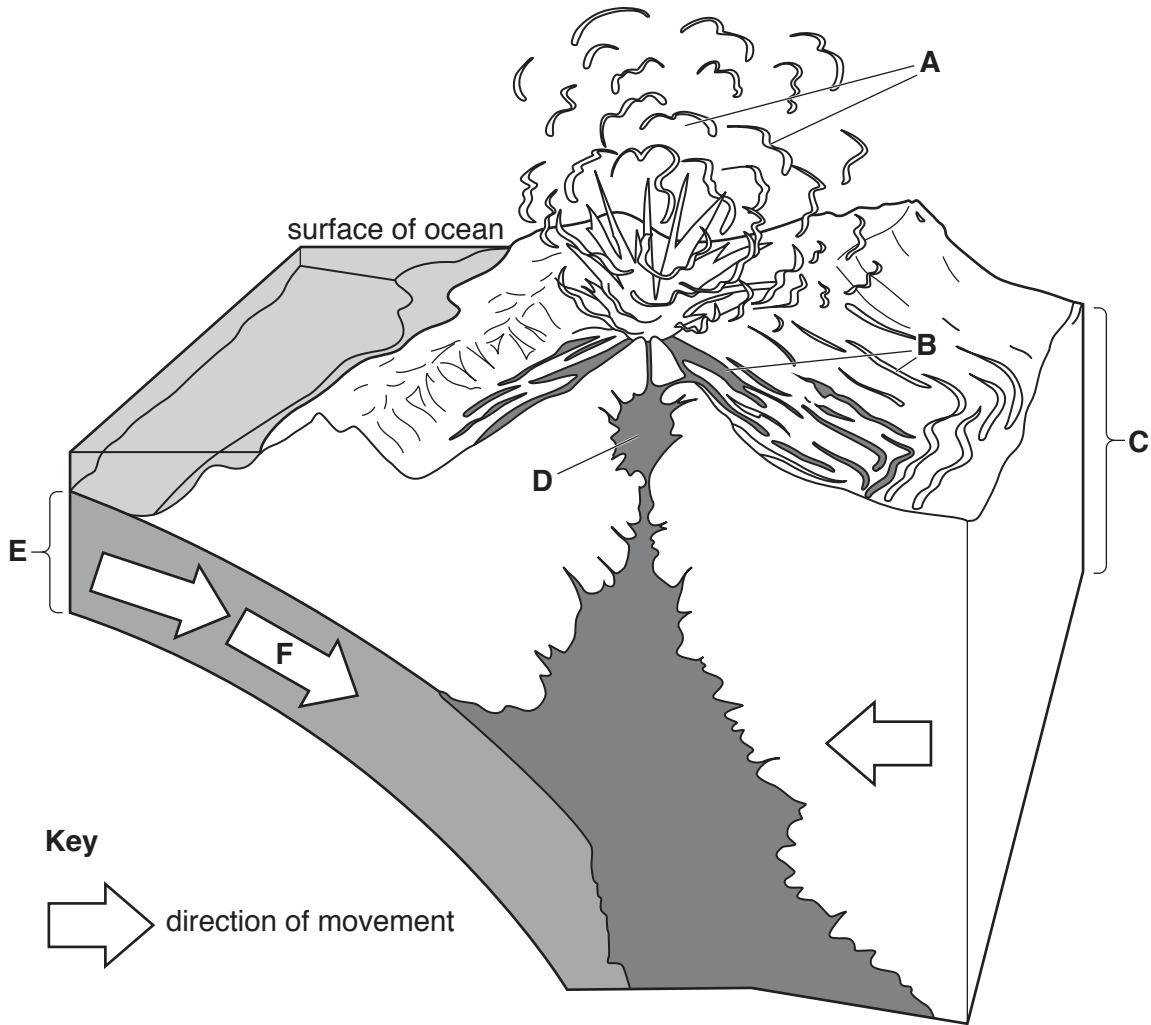
You may lose marks if you do not show your working or if you do not use appropriate units.

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.

This document consists of **14** printed pages and **2** blank pages.

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.

.....[1]

(b) Explain how volcanoes are formed at this type of plate boundary.

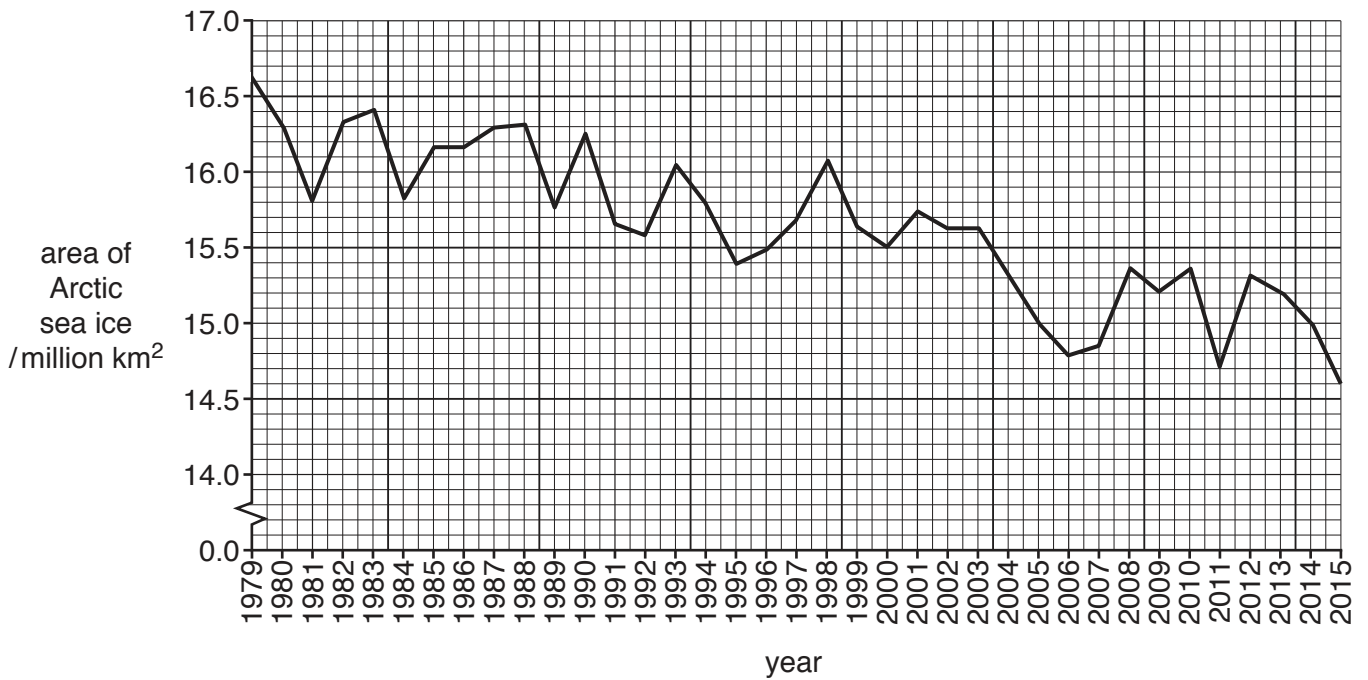
.....
.....
.....
.....
.....
.....
.....[3]

(c) Suggest **three** hazards for people living on the slopes of an active volcano.

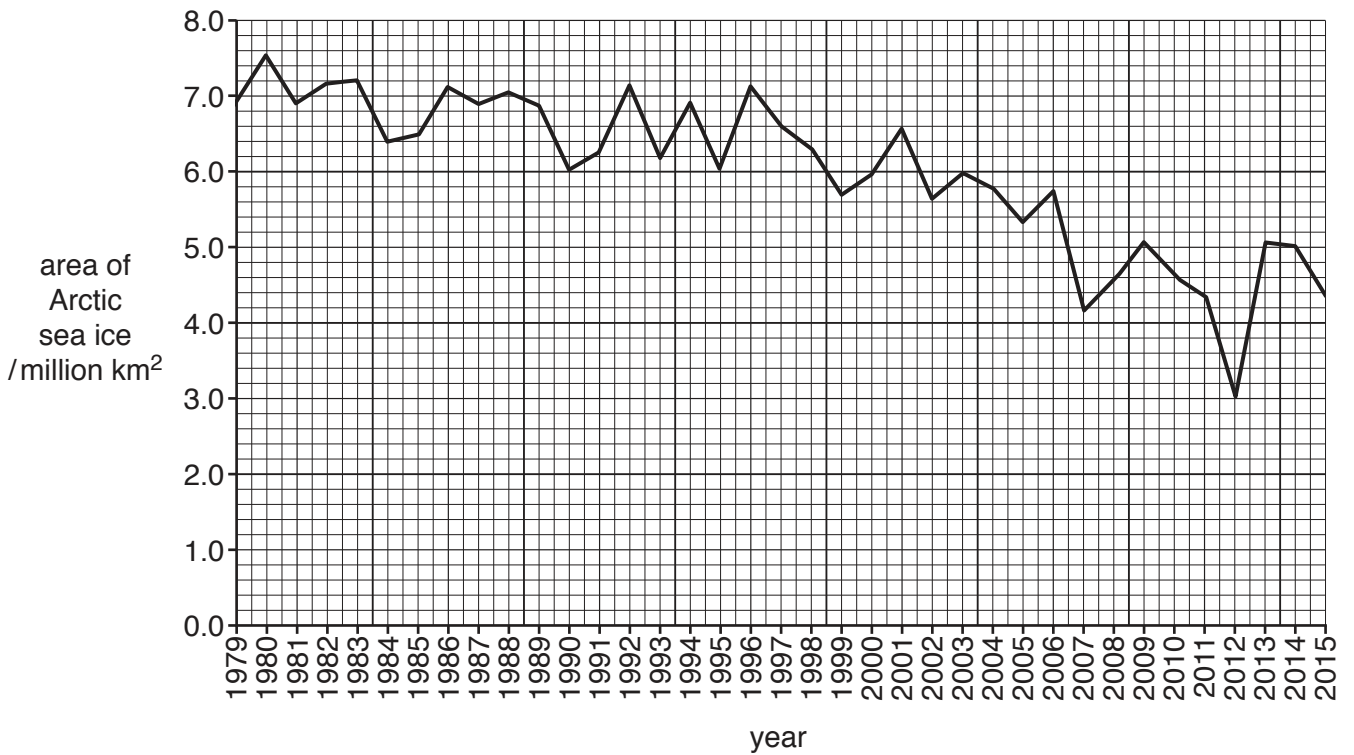
1
.....
2
.....
3
.....
[3]

- 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.

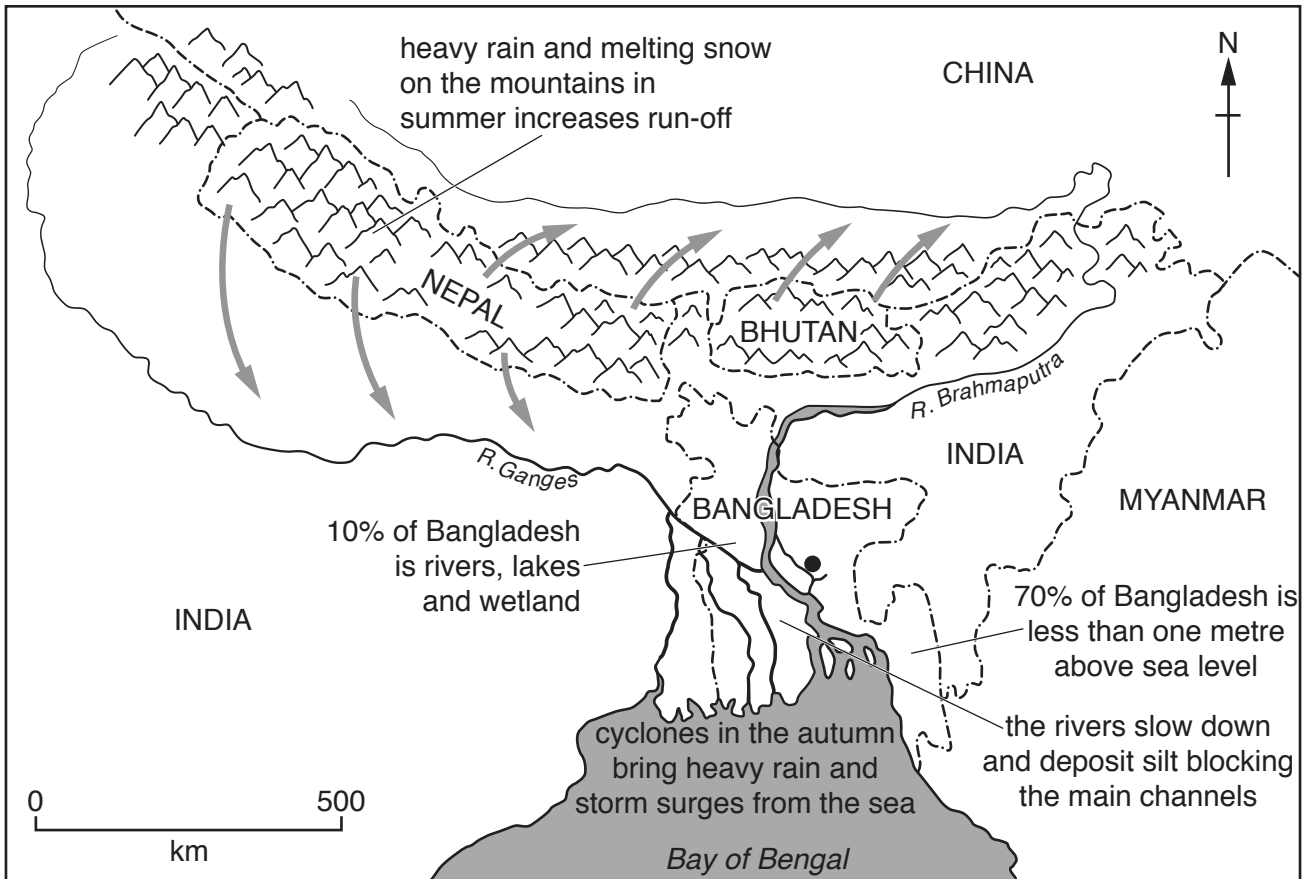
Graph A, the maximum area of Arctic sea ice






Graph B, the minimum area of Arctic sea ice



3 The map shows information about flooding in Bangladesh.



Key

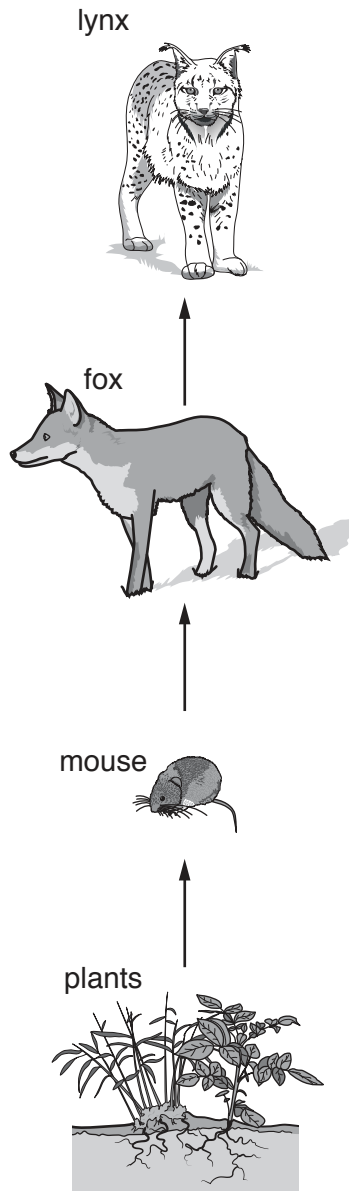
- capital city
-  mountains
-  run-off from mountains
-  international boundary

(a) Use information on the map to describe **three** reasons for floods in Bangladesh.

- 1
- 2
- 3

[3]

4 The diagram shows a food chain.



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

predator

consumer

producer

[3]

(b) (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]

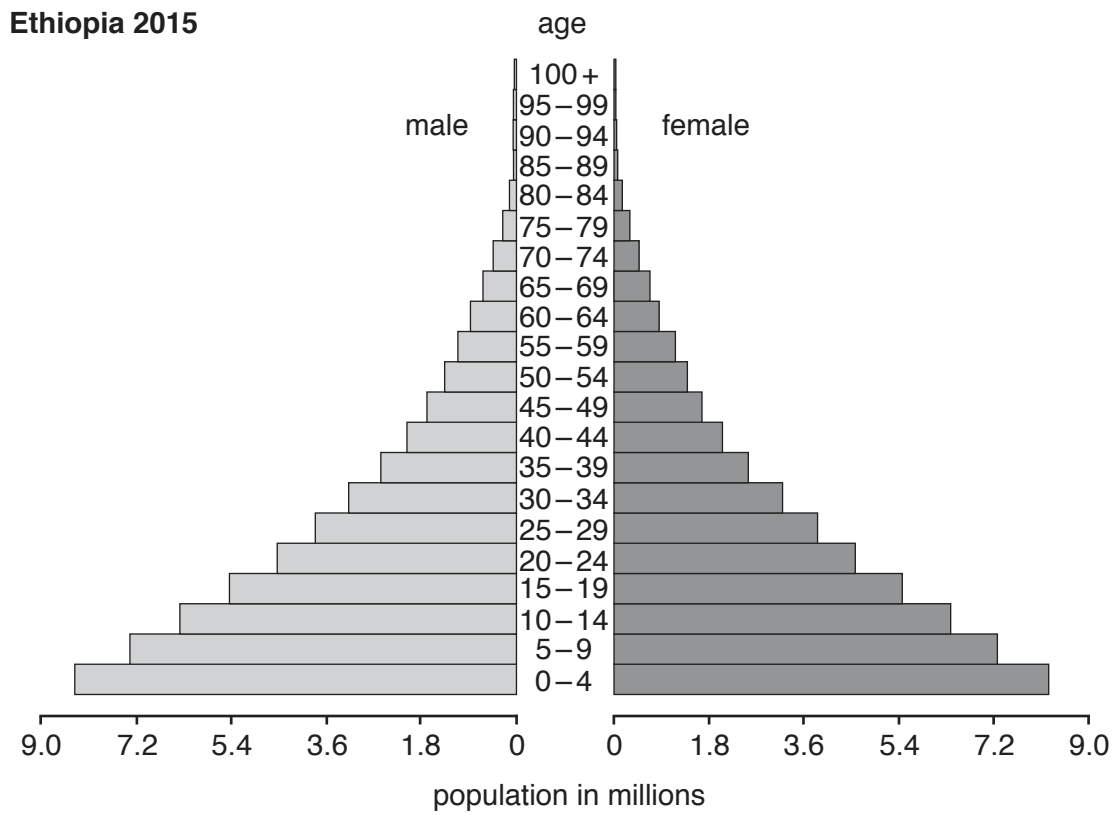
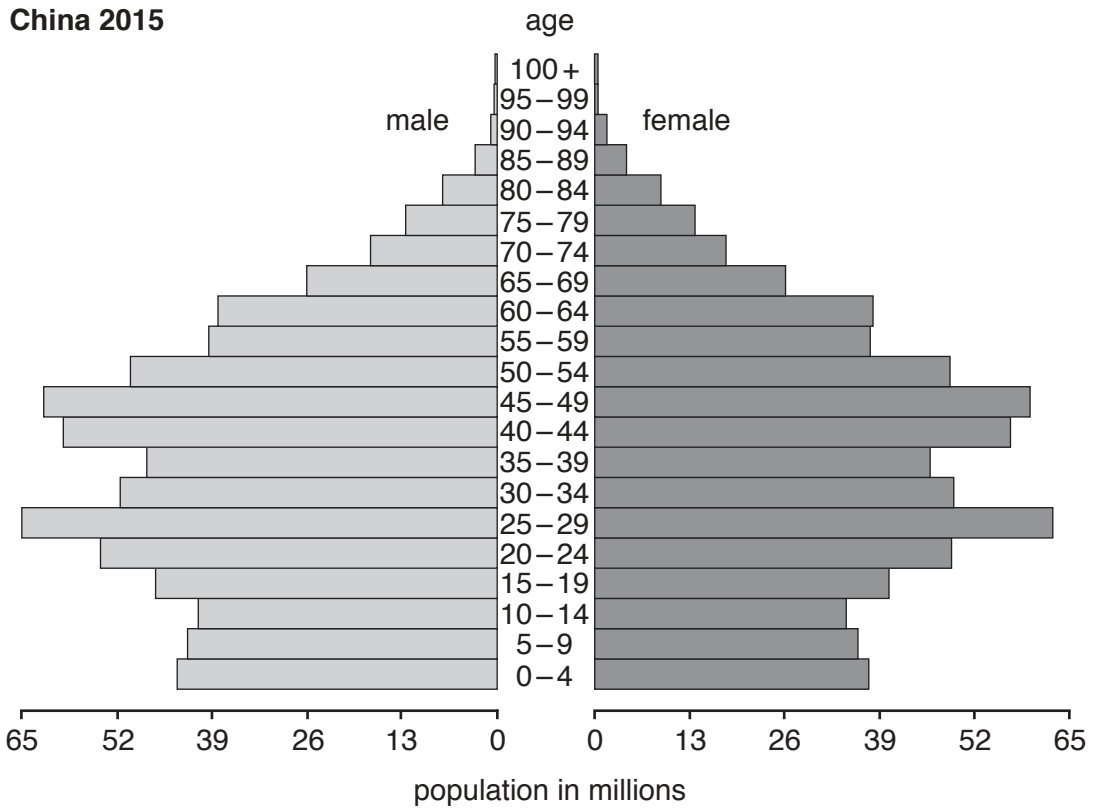
(c) Describe ways, other than by desalination, for improving the quantity of fresh water available.

.....
.....
.....
.....[2]

(d) Explain why some countries have plentiful supplies of fresh water.

.....
.....
.....
.....[2]

6 The diagram shows three population pyramids for 2015.



- (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]

BLANK PAGE

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge International Examinations Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cie.org.uk after the live examination series.

Cambridge International Examinations is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.