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Cambridge IGCSE

Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

CANDIDATE NAME									
CENTRE NUMBER						CANDIDATE NUMBER				

0286886763

ENVIRONMENTAL MANAGEMENT **0680/13**

Paper 1 **May/June 2017**

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.

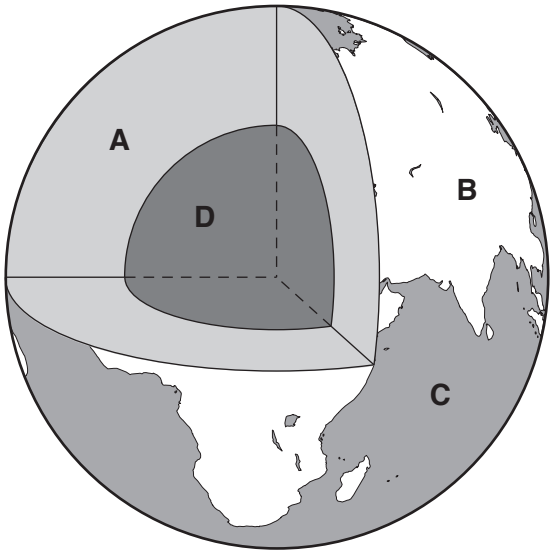
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1 The diagram shows the structure of the Earth.



(a) Complete the table using letters **A** to **D** from the diagram.

feature	letter
continental crust	.....
core	.....
mantle	.....
oceanic crust	.....

[3]

(b) Explain why living near plate boundaries is hazardous for people.

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.....[4]

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(c) Rocks used for buildings and roads come from the Earth's crust.

Suggest **three** benefits of using rocks from the local area for buildings and roads.

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.....[3]

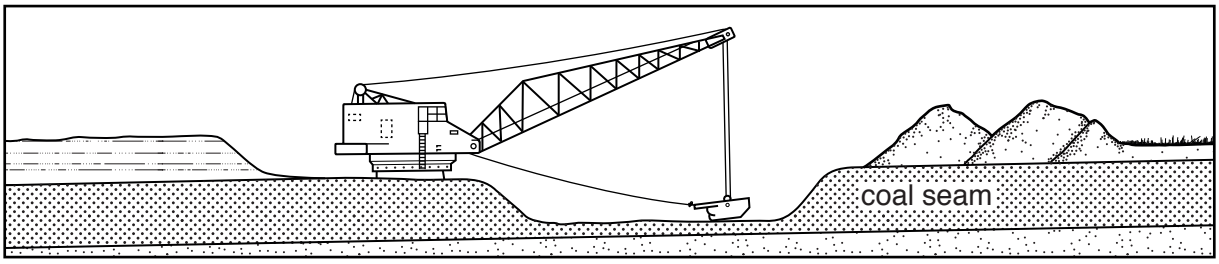
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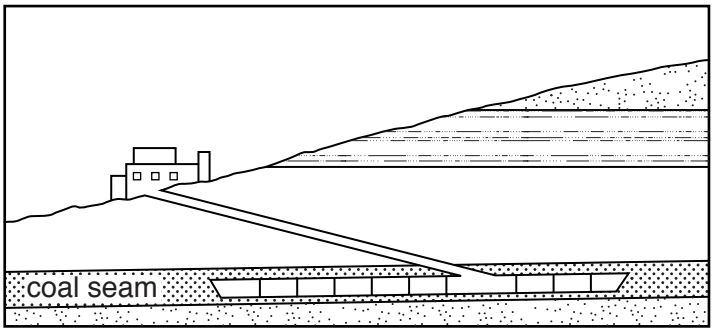
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2 The diagram shows three types of coal mine labelled **P**, **Q** and **R**.

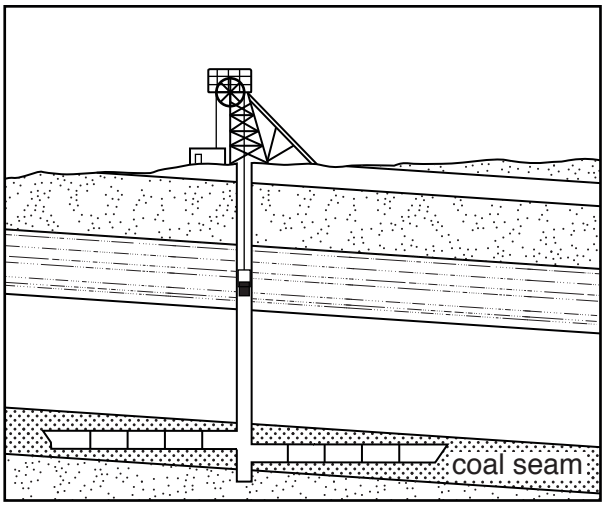
P



Q



R



(a) (i) Match the letters, **P**, **Q** and **R**, in the diagram to the types of coal mine.

adit (drift) mine .....

open-pit (opencast) mine .....

shaft mine .....

[2]

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(ii) It is more dangerous to work in the type of mine labelled **R** than in the type of mine labelled **P**.

Explain why.

.....

.....

.....

.....

.....

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.....

.....[4]

(iii) Coal is a fossil fuel.

Name **one** other fossil fuel.

.....[1]

(b) Suggest **three** advantages of generating electricity using nuclear fuel compared with using fossil fuels.

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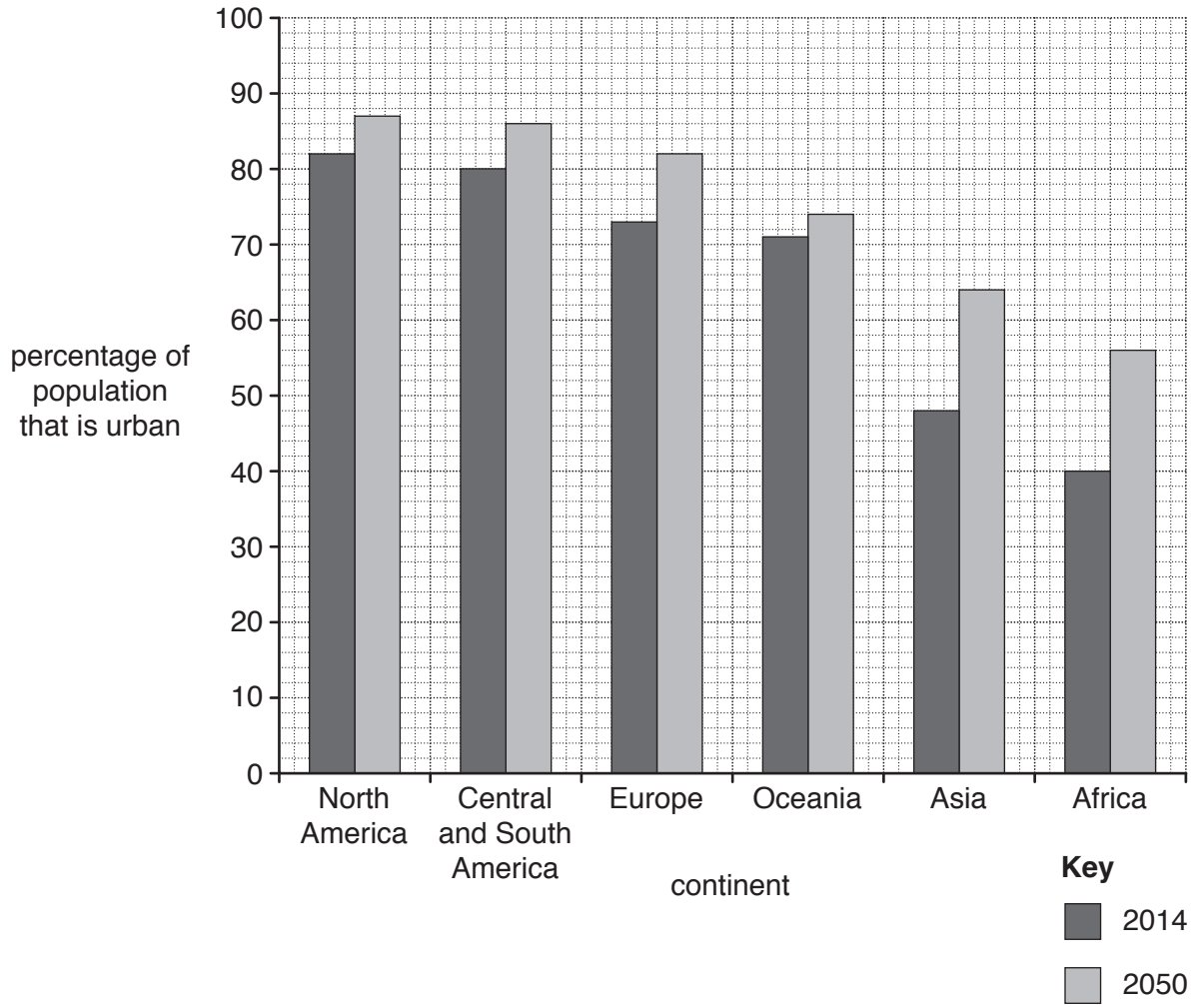
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3 The graph shows the percentage of population that was urban by continent in 2014 and the expected change by 2050.



(a) (i) Name the **two** continents with the highest percentage of population that was urban in 2014.

1 .....

2 ..... [1]

(ii) Name the **two** continents which are expected to have the highest percentage of people living in rural areas by 2050.

1 .....

2 ..... [1]

(iii) Name the **two** continents where the percentage of population that is urban is expected to grow the most between 2014 and 2050.

1 .....

2 ..... [1]

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(b) (i) State the word used to describe the increasing number of people living in urban areas.

.....[1]

(ii) Suggest **three** reasons why people leave rural areas in developing countries.

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.....[3]

(iii) Describe **three** environmental problems caused by the rapid growth of cities in developing countries.

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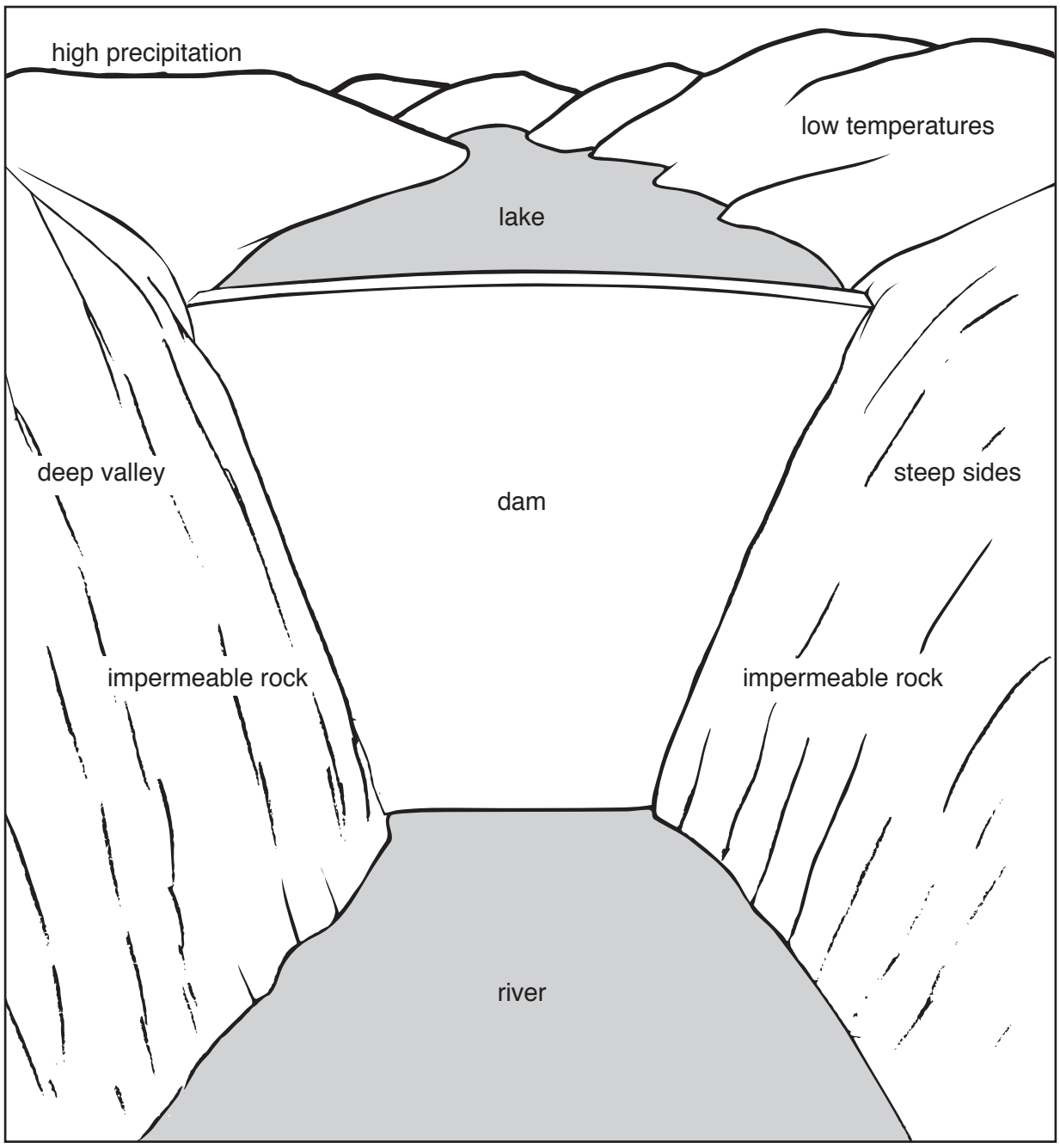
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4 The diagram shows a dam and features of its location.



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(a) Choose **three** features shown on the diagram.

Explain why each makes this a good location for a dam.

feature 1 .....

explanation .....

.....

feature 2 .....

explanation .....

.....

feature 3 .....

explanation .....

.....

[3]

(b) Explain why water from rivers and lakes may not be safe to drink.

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.....[4]

(c) Suggest ways that countries with low rainfall and few rivers could obtain supplies of water.

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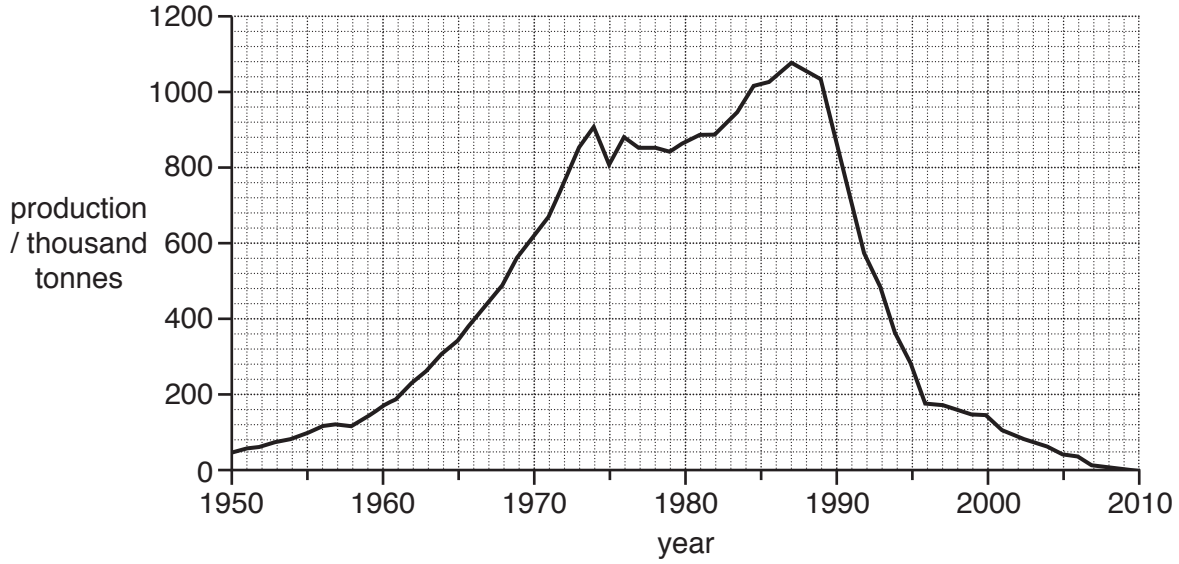
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5 The graph shows the production of chlorofluorocarbons (CFCs) between 1950 and 2010.



(a) (i) Describe the trends in the production of CFCs between 1950 and 2010.

.....

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.....[3]

(ii) Suggest reasons for the change in the production of CFCs after 1987.

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.....[3]

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(b) (i) CFCs are greenhouse gases.

Name **two** other greenhouse gases.

.....

.....[1]

(ii) Explain how greenhouse gases cause the greenhouse effect.

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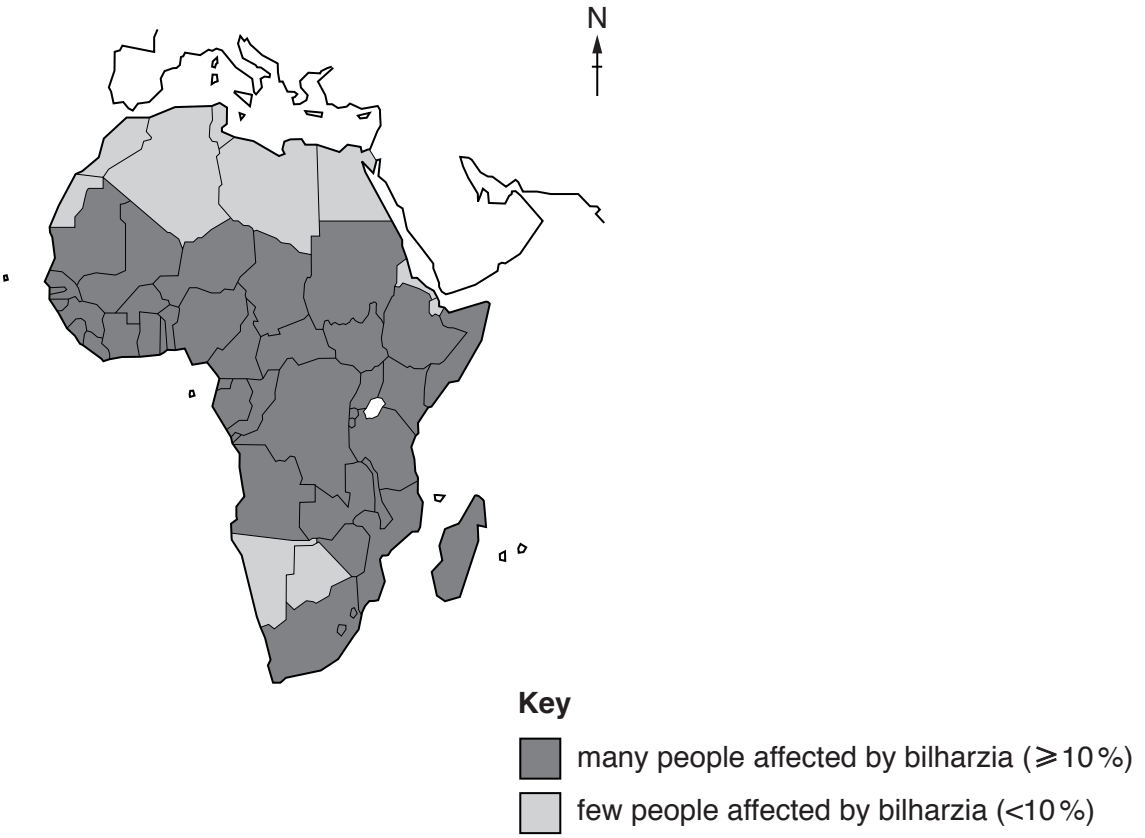
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6 The map shows the distribution of countries in Africa where bilharzia affects people.



(a) Describe the distribution of countries shown on the map where bilharzia affects few people.

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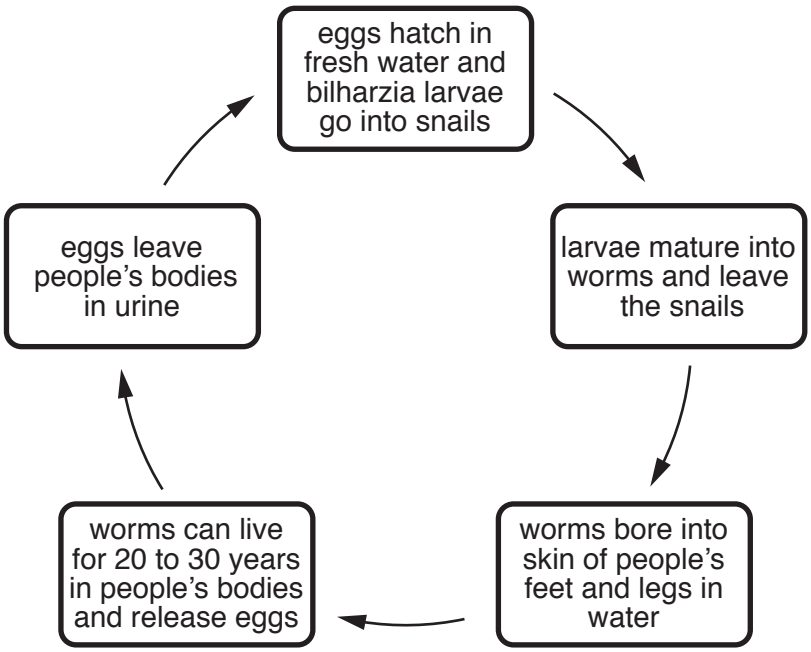
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(b) The diagram shows the bilharzia life cycle.



(i) Explain the effects of bilharzia on people.

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.....[4]

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(ii) Suggest ways of preventing and controlling the spread of bilharzia.

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.....[4]

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