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| Centre Number | Candidate Number | Name |
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CAMBRIDGE INTERNATIONAL EXAMINATIONS
International General Certificate of Secondary Education

NATURAL ECONOMY **0670/01**

Paper 1 May/June 2003

Candidates answer on the Question Paper. **1 hour 45 minutes**

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 in the spaces provided on the Question Paper.
You may use a soft pencil for any diagrams or rough working.
Do not use staples, paper clips, highlighters, glue or correction fluid.

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

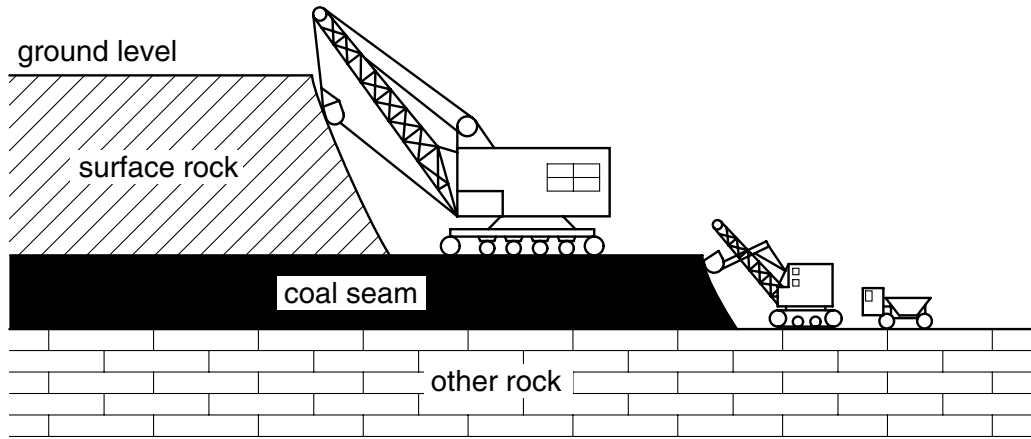
If you have been given a label, look at the details. If any details are incorrect or missing, please fill in your correct details in the space given at the top of this page.

Stick your personal label here, if provided.

| FOR EXAMINER'S USE | |
|--------------------|--|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| TOTAL | |

1

2



(a) (i) With the help of the diagram, describe how coal is mined in an open cast mine.

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.....[4]

(ii) Suggest **two** ways in which open cast mining can cause environmental damage to the local area.

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

(b) (i) Coal can also be mined underground. This can be dangerous for the workers. State and explain **two** ways in which there may be danger.

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.....[4]

(ii) The extraction of minerals may stop in some mines even though some reserves remain. Give **two** reasons why this may happen.

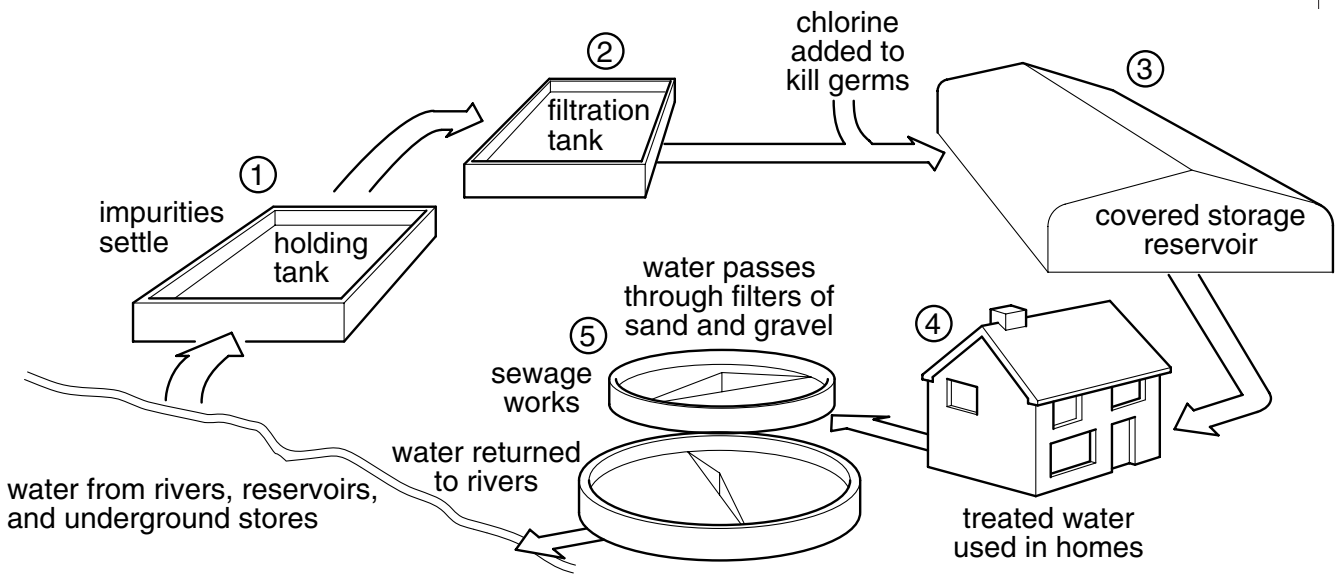
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.....[2]

(c) Suggest ways in which environments damaged by open cast mining might be restored.

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.....[3]

[Total : 15]

2 Look at the diagram below which shows how water can be treated to make it clean and safe.



(a) Use the diagram to explain how water is made clean and safe.

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.....[4]

(b) (i) Name **two** water related diseases.

.....[2]

(ii) Water related diseases affect more people in developing than developed countries. Give **two** reasons for this.

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.....[2]

(iii) State and explain **two** reasons why the demand for water increases as a country becomes more developed.

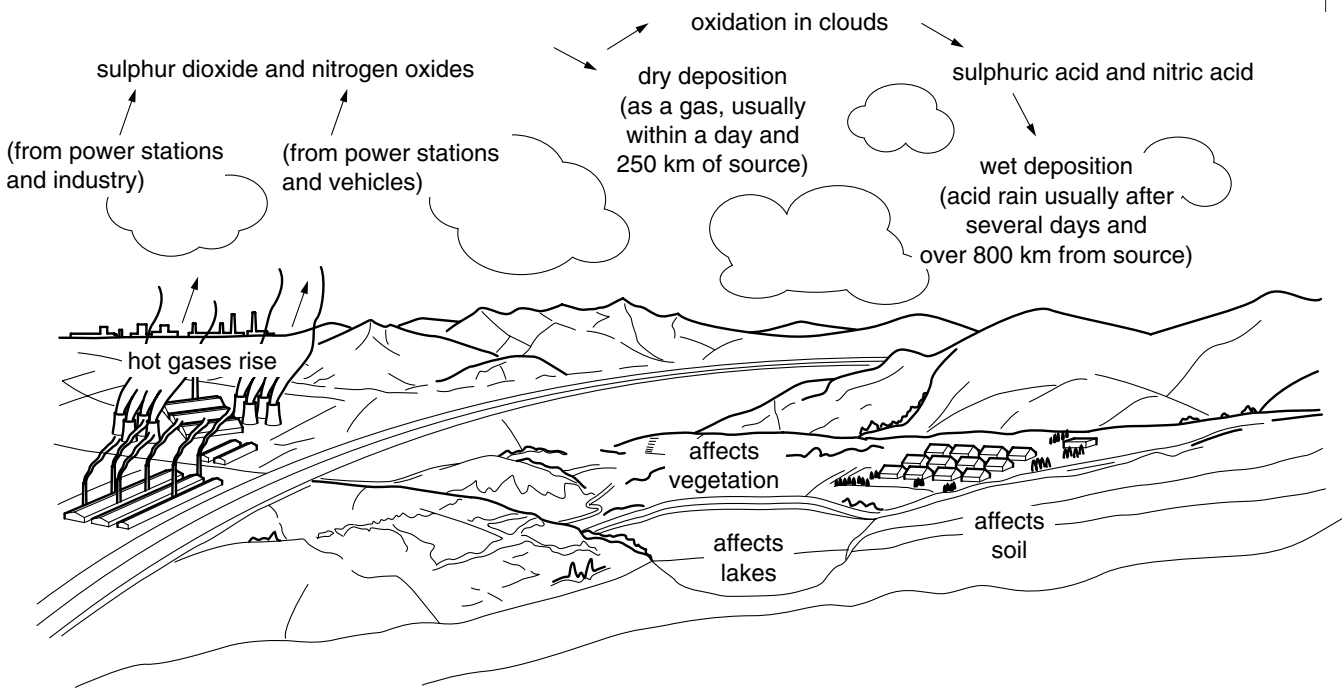
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(c) What advice would you give to children living in rural areas of developing countries to make them less likely to suffer from water related diseases?

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.....[3]

[Total : 15]

3 The diagram below shows some of the causes of acid rain and what it affects.



(a) (i) What do you understand by the term 'acid rain'?

.....
[1]

(ii) From the diagram, state the **three** main sources of sulphur dioxide and nitrogen oxides.

.....[2]

(iii) State the **two** ways in which sulphur dioxide and nitrogen oxides are deposited.

.....
[1]

(b) (i) Describe how acid rain affects lakes.

.....

[2]

(ii) State **one** effect of acid rain on each of the following:

buildings,

.....

soils,

.....

vegetation

.....[3]

(iii) In Germany, trees have been treated by spraying to wash off the acid and lime has been added to soils, lakes and rivers. Suggest disadvantages of these treatments.

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.....[3]

(c) Why is it difficult to reduce the emissions that cause acid rain?

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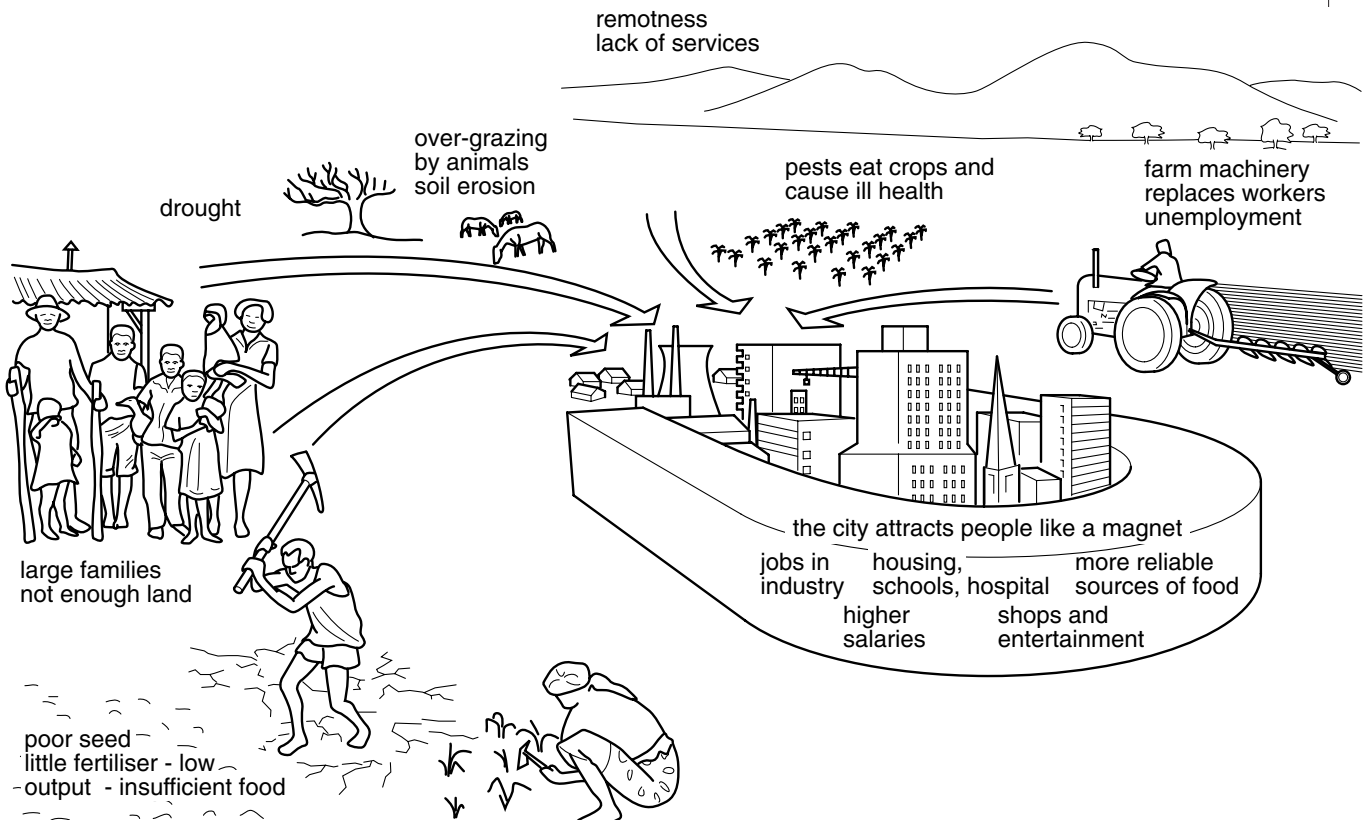
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.....[3]

[Total : 15]

- 4 The diagram below shows some of the push and pull factors which affect rural-urban migration in developing countries.



- (a) (i) From the diagram, state **two** push factors.

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- (ii) From the diagram, state **two** pull factors.

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[4]

(b) Rapid urbanisation causes many problems. Explain how it may affect;

(i) housing,

.....

.....

(ii) transport,

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(iii) pollution,

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(iv) provision of services (schools and hospitals)

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[8]

(c) Suggest strategies governments might use to encourage people to stay in rural areas.

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[3]

[Total : 15]

TOTAL FOR PAPER: 60

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Question 3. D. Waugh, *The New Wider World*, Nelson.

Question 4. D. Waugh, *The New Wider World*, Nelson.

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