

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

**NATURAL ECONOMY**

**0670/02**

Paper 2

May/June 2003

**2 hours**

Candidates answer on the Question Paper.  
Additional Materials: Ruler (cm/mm)

**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, graphs or rough working.  
Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer **both** 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.

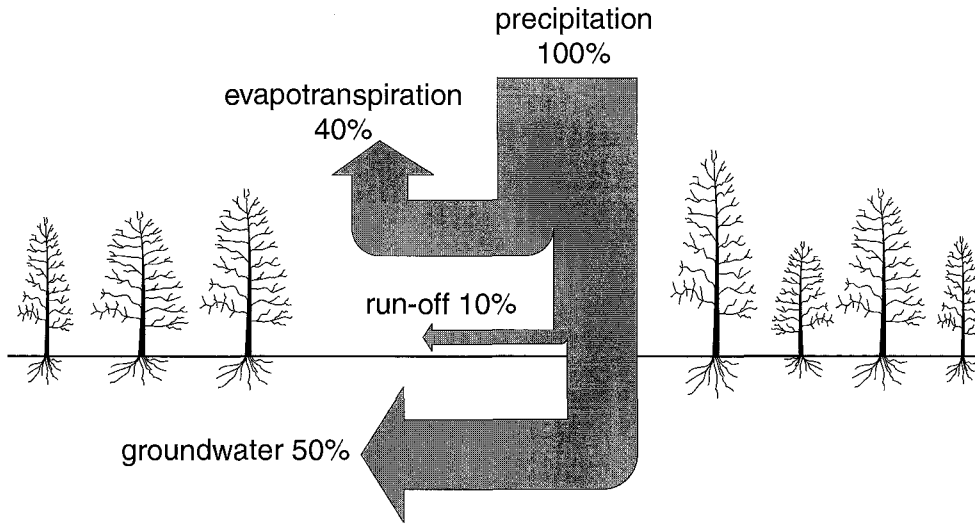
Stick your personal label here, if provided.

For Examiner's Use	
1	
2	
<b>TOTAL</b>	

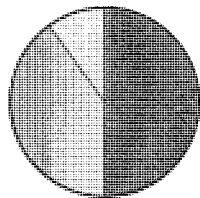
This document consists of **19** printed pages and **1** blank page.

- 1 (a) Look at diagram A, which shows what happened to precipitation that fell in a forested area in Canada.




diagram A



**what happens to the precipitation**



**key**

-  groundwater
-  evapotranspiration
-  run-off

- (i) What is precipitation?

.....  
 ..... [1]

- (ii) What causes evapotranspiration?

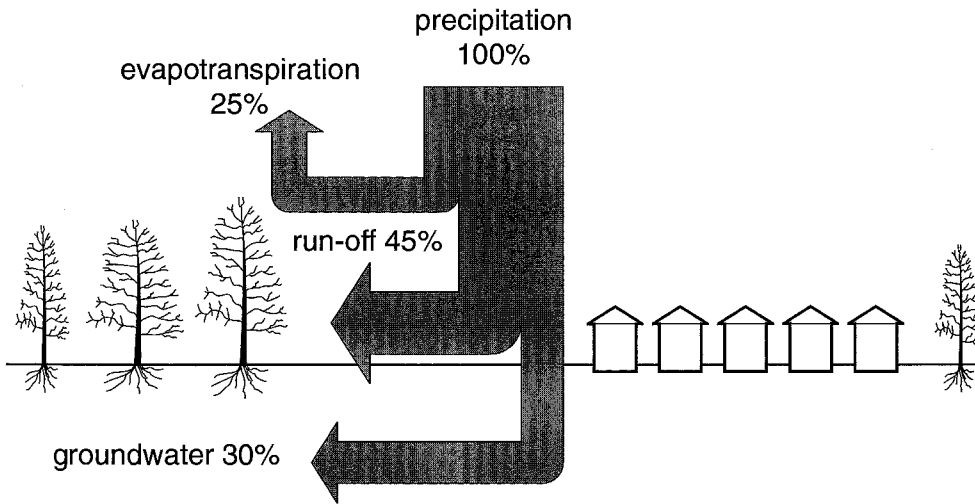
.....  
 ..... [1]

- (iii) State the difference between run-off and groundwater.

.....  
 ..... [1]

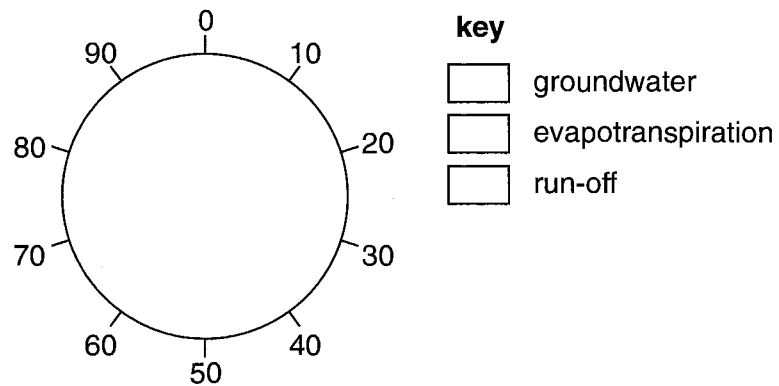
- (b) Diagram B below shows what is happening now in the same area, after many of the trees were cut down and replaced by buildings.

diagram B



- (i) Complete the pie graph to show the percentages for what is happening to the precipitation in diagram B. Complete the key.

what happens to the precipitation



[3]

- (ii) Using information from diagrams A and B, complete the table below.

Process	Diagram A	Diagram B	change (%)
Precipitation	100	100	0
Evapotranspiration	40	25	-15
Run-off			
Groundwater			

[2]

**(iii)** Explain why the percentages of some processes have decreased from diagram A to diagram B.

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

**(iv)** In which diagram (A or B) would flooding be more likely to occur?

Explain your answer.

Diagram .....

Explain .....

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

**(c)** Many people are living in homes without any sanitation (clean water and sewage disposal) in developing countries.

**(i)** Explain why it is very important to have proper sanitation in homes.

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