

Candidate Name \_\_\_\_\_

Centre Number	Candidate Number

**International General Certificate of Secondary Education**  
**CAMBRIDGE INTERNATIONAL EXAMINATIONS**  
**NATURAL ECONOMY**  
**PAPER 1**

**0670/1**

**OCTOBER/NOVEMBER SESSION 2002**

1 hour 45 minutes

Candidates answer on the question paper.  
Additional materials:  
Ruler (cm/mm)

**TIME** 1 hour 45 minutes

**INSTRUCTIONS TO CANDIDATES**

Write your name, Centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided on the question paper.

**INFORMATION FOR CANDIDATES**

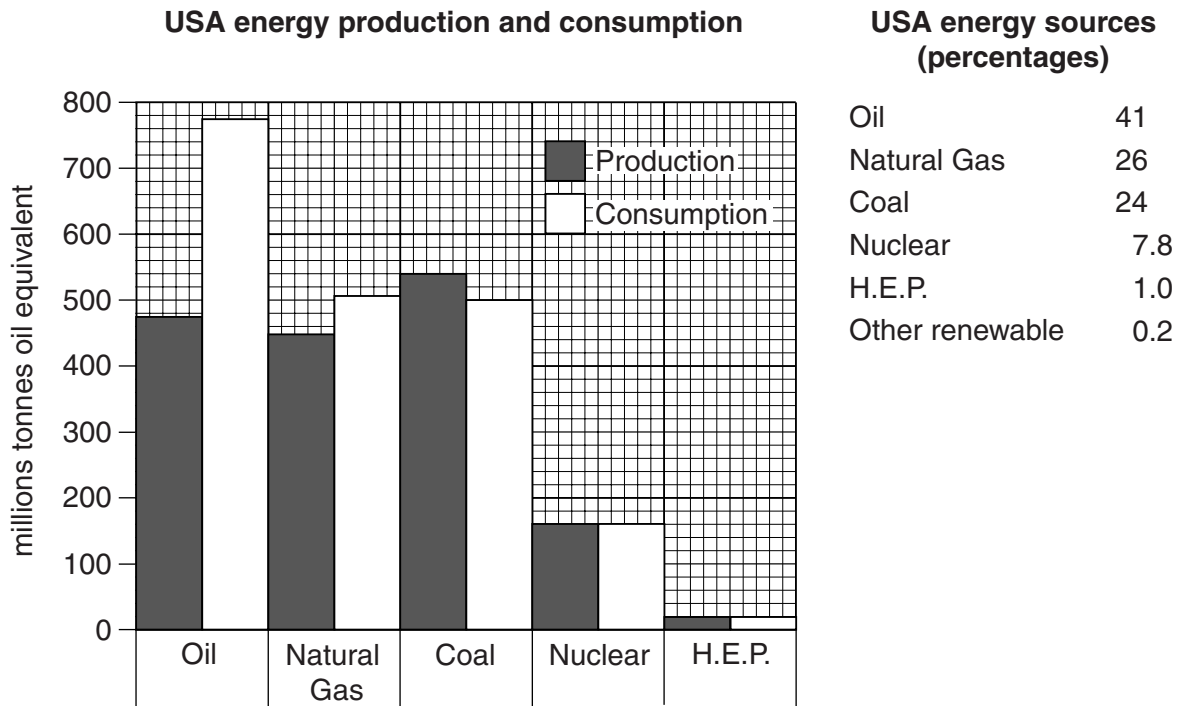
The number of marks is given in brackets [ ] at the end of each question or part question.

FOR EXAMINER'S USE	
1	
2	
3	
4	
<b>TOTAL</b>	

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**This question paper consists of 10 printed pages and 2 blank pages.**

1 (a) The information below shows energy sources used in the USA, a developed country.



(i) Name **one** energy source where production is greater than consumption.  
 .....[1]

(ii) Name **one** energy source where consumption is greater than production.  
 .....[1]

(iii) What percentage of the USA's energy comes from fossil fuels? Show your working.  
 .....  
 .....[2]

(iv) State **two** disadvantages to the USA of relying so heavily on fossil fuels.  
 .....  
 .....  
 .....  
 .....[2]

(b) (i) In developing countries, fuelwood is an important source of energy. Explain why fuelwood may be regarded as a renewable form of energy.

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

(ii) Why might fuelwood sometimes be regarded as a non-renewable form of energy?

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

(iii) Name **one** other biological source from which energy may be obtained.

.....[1]

(c) Suggest **two** reasons why fuelwood is the main fuel used by many people in developing countries.

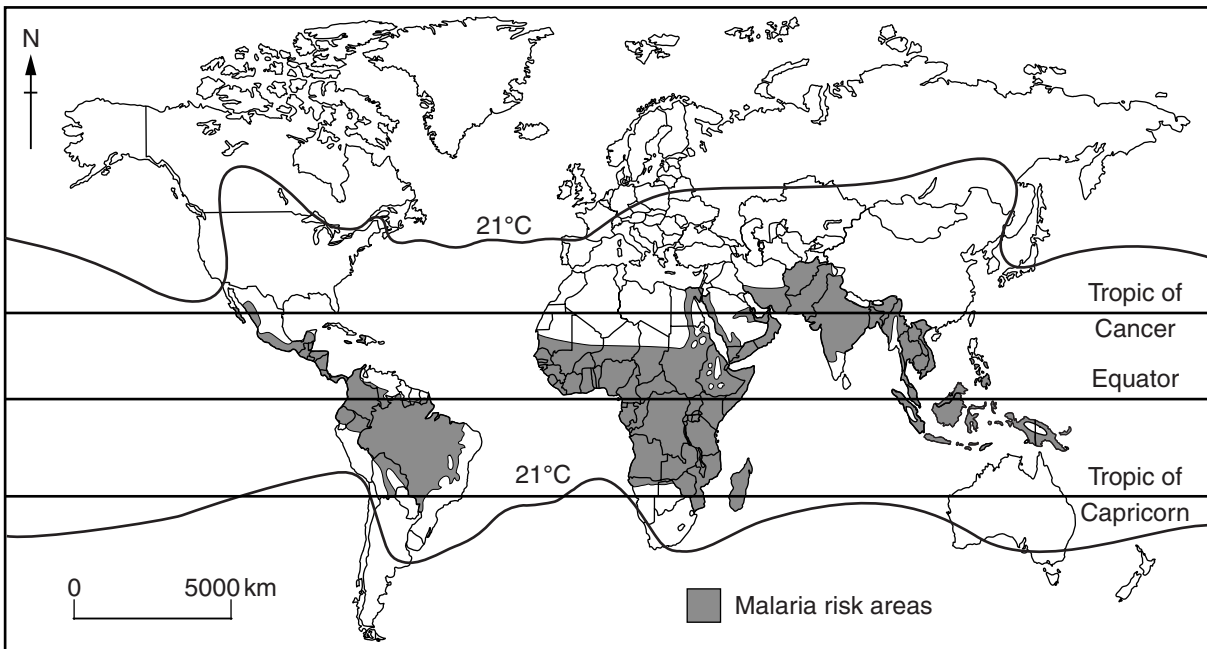
.....  
.....  
.....  
.....[2]

(d) Suggest strategies that governments might adopt to reduce the pollution caused by the burning of fuels.

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

[Total : 15]

2 (a) The map below shows areas of the world where people may be at risk from malaria.



(a) (i) Where in the world are people at risk from malaria?

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

(ii) The map shows areas of the world where average summer temperatures exceed 21 °C. Suggest reasons why this information has been included on the map.

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

(b) (i) What is meant by the term ‘water-related disease’?

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

(ii) Choose any **one** water-related disease and explain how it may be transmitted.

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

(iii) Describe **three** ways in which deaths from water-related diseases can be reduced.

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

(c) Which of the ways you have suggested in (b)(iii) would you consider to be the most effective? Give reasons for your answer.

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

[Total : 15]

- 3 The table below shows a summary of the climate for four places in the tropics.

Places	A	B	C	D
Latitude	Equator (0°)	10°	15°	20°
Average January temperature (°C)	28	23	21	21
Average July temperature (°C)	29	31	34	35
Average annual precipitation (millimetres)	1900	800	450	120
Number of dry months (below 50 millimetres)	0	6	9	12

- (a) (i) The annual range of temperature at A is 1 °C. State the annual range at D.

.....[1]

- (ii) Using information from the table, describe how the climates shown change from the Equator to latitude 20°.

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

- (iii) Name the type of climate at A and at D.

A ..... D ..... [2]

- (b) In which one of the four places (A–D) is the climate likely to be the most difficult for farming? Explain your choice of place.

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

(c) (i) Large scale deforestation is taking place around the Equator. Explain the effects this is having on the composition of the atmosphere.

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

(ii) State **one** way in which world climates are being affected by large-scale deforestation.

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

(d) Explain why international action is necessary to reduce atmospheric pollution.

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

[Total : 15]

