

Candidate Name

Centre Number

Candidate
Number

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**OXFORD CAMBRIDGE AND RSA EXAMINATIONS****General Certificate of Secondary Education****GEOGRAPHY SPECIFICATION A**

PAPER 3 FOUNDATION TIER

SPECIMEN PAPER FOR JUNE 2003**1986/3**

1 hour

Candidates answer on the question paper.

Additional materials:

Map Extract (1986/3&4/M)

Photograph Sheet (1986/3&4/P)

TIME 1 hour**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.

You will be awarded up to 2 marks for the quality of written communication.

Additional answer space is available on the lined page at the back of this book. Answers on this page **must** be clearly numbered.

FOR EXAMINER'S USE	
Question 1	
Question 2	
QWC	
TOTAL	

This specimen paper consists of 11 printed pages and 1 lined page.

1 (a) Study Fig. 1a.

Map showing part of North Western England

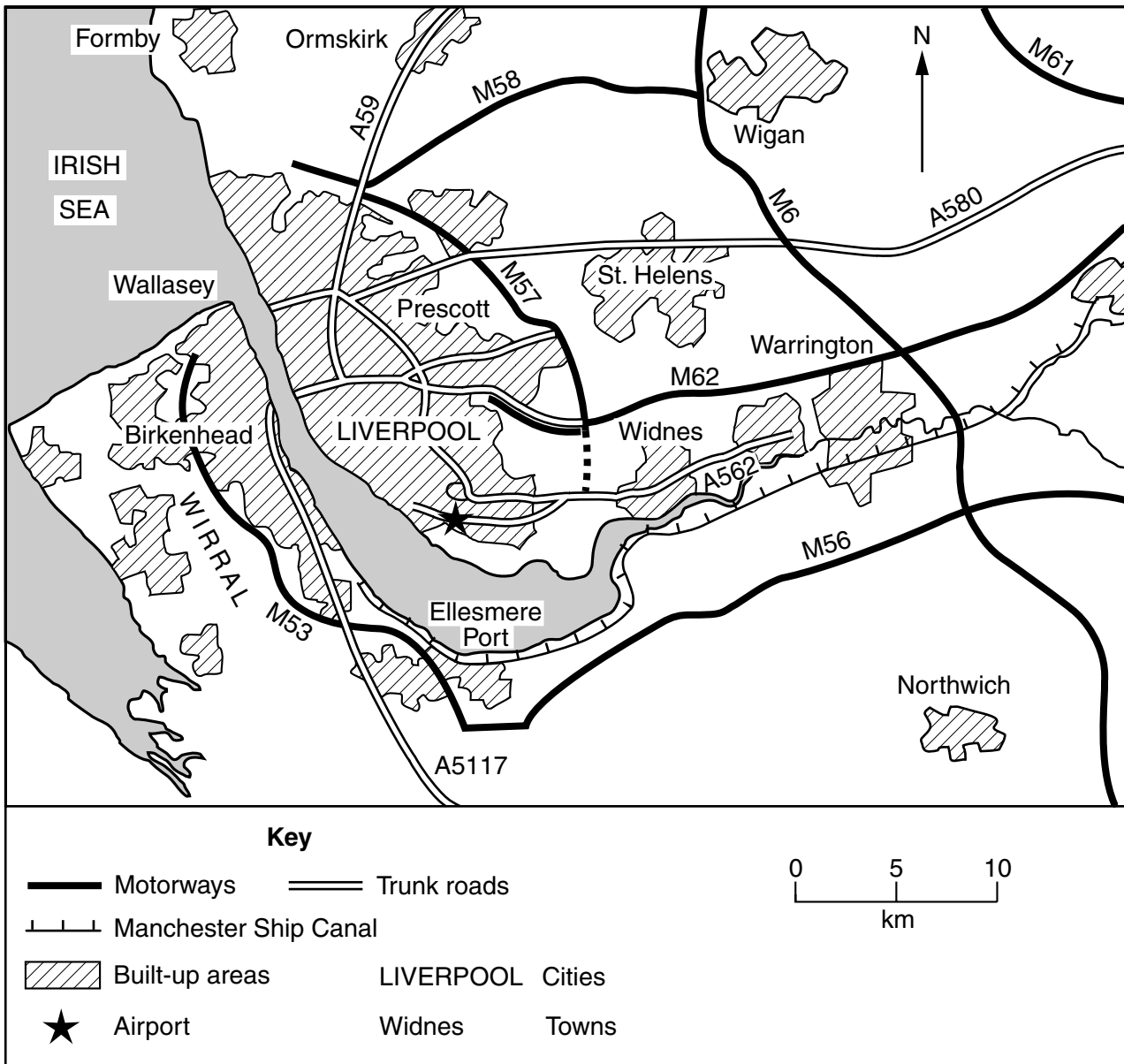


Fig. 1a

(i) Name the city to the west of St. Helens.

_____ [1]

(ii) Which motorway is 5 kilometres north east of St. Helens?

_____ [1]

(iii) What is the direction of Liverpool Airport from St. Helens?

_____ [1]

(b) Study Photograph A on the separate sheet along with Fig. 1a.

Photograph A is a satellite image of the area which is shown in Fig. 1a.

(i) In which square of the satellite image is St. Helens located?

_____ [1]

(ii) How is the land use in square B2 different from the land use in square D5? Use the key to work out your answer.

_____ [2]

(c) Study Fig. 1b.

A sketch map showing the western half of the area shown by the satellite image (Photograph A)

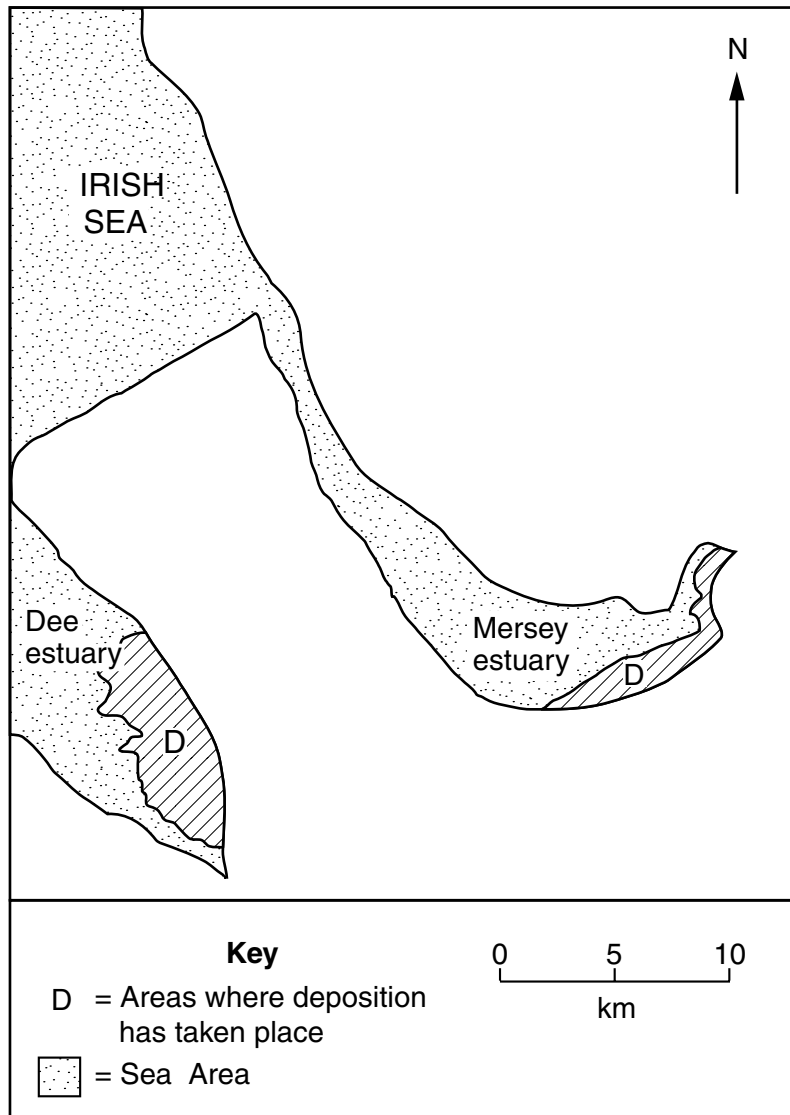


Fig. 1b

(i) Mark an **X** on Fig. 1b where there is shallow water.

[1]

- (ii) Suggest a reason why deposition has taken place in the two areas labelled D on Fig. 1b.

[1]

- (d) Study Fig. 1c and the OS map extract (1:50 000) of St. Helens and the surrounding area.

Population and services of five settlements near St. Helens

The data was collected during a fieldwork visit to the area. All settlements are shown on the OS map extract.

Settlement	Grid Square	Population	Services available in settlement										
			✓	✓	✓	✓	✓	✓	✓	✓	✓		
Billinge	5200	9300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗
Crank	5099	500	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗
Houghwood	5100	50	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Kings Moss	5001	150	✓	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗
Rainford	4801	7100	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Key
 ✓ = Service available
 ✗ = No service

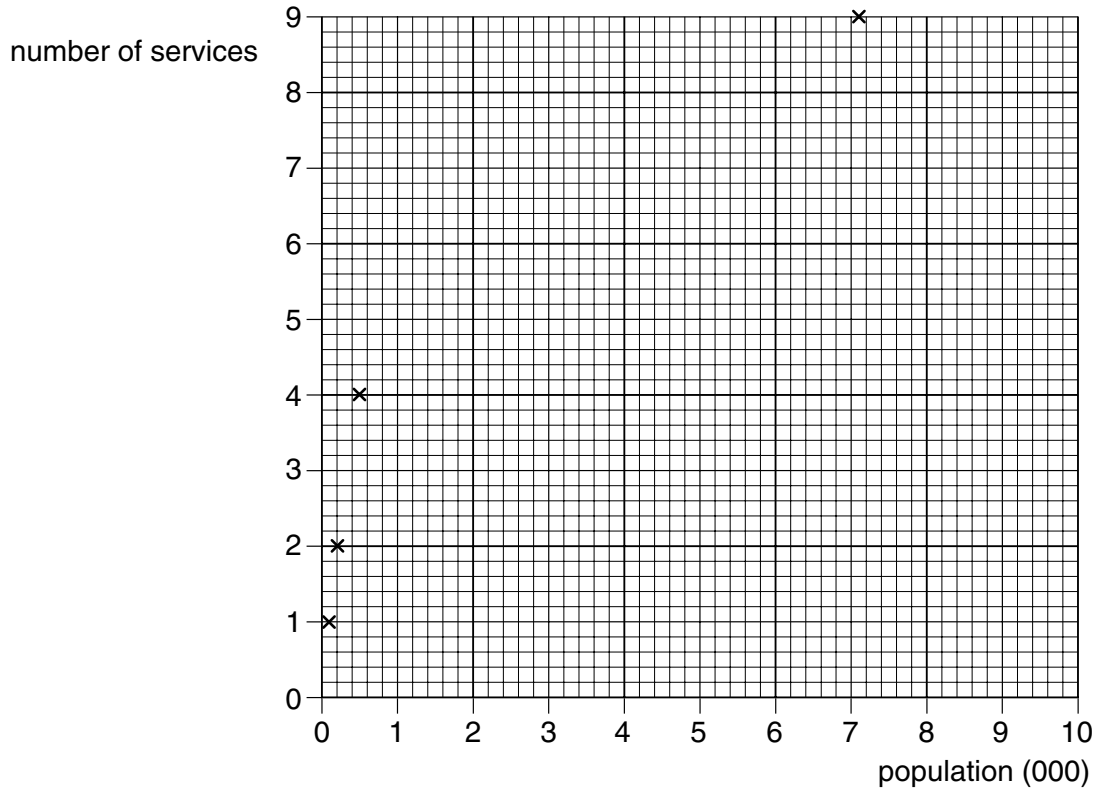
Post Box
 Church or Chapel
 Public House
 Post Office
 Primary School
 Hairdresser
 Surgery or Health Centre
 Dentist
 Secondary School

Fig. 1c

- (i) Compare the services available in Crank and Kings Moss.

[2]

- (ii) The scatter graph below shows the relationship between the population and the number of services available in the settlements. Use the information in Fig. 1c to plot Billinge on the graph. [1]



- (iii) Describe the general relationship shown by the table between the number of people who live in a settlement and the services available.

_____ [1]

- (iv) Suggest why settlements like Crank, Houghwood and Kings Moss do not have many services.

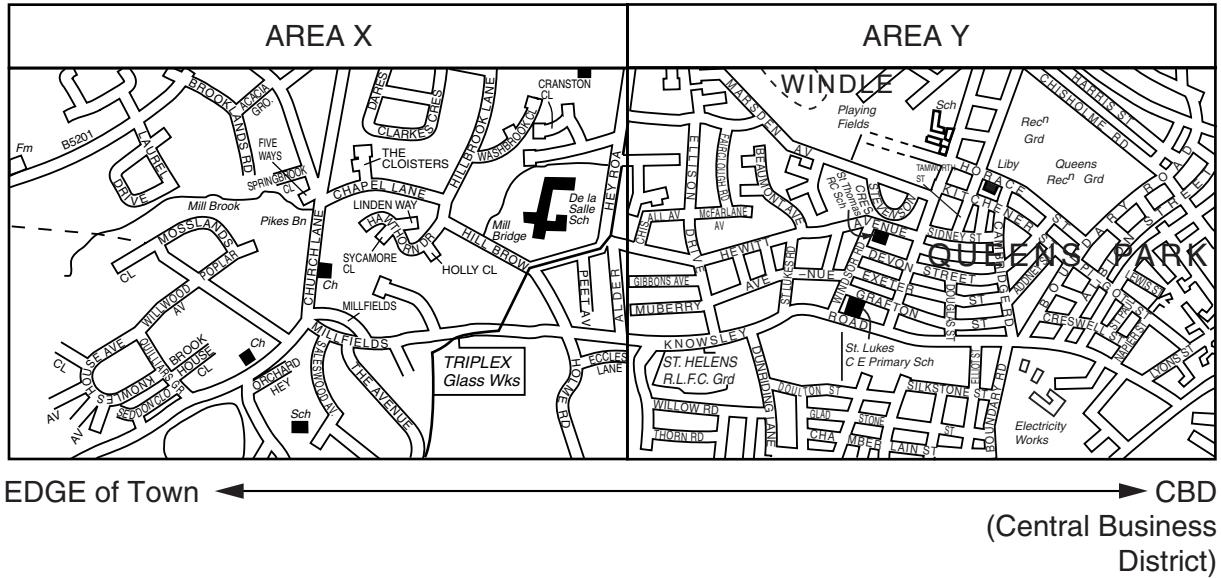
_____ [2]

- (v) Use evidence from the OS map extract to suggest why Billinge is a larger settlement than Houghwood.

_____ [1]

(e) Study Fig. 1d.

The western part of St. Helens



Acknowledgement: St. Helens A-Z Street Map published by McMillan Group

Fig. 1d

(i) Use map evidence **only** to describe one difference in the road layout between areas X and Y.

_____ [1]

(ii) Give **three** likely differences between the housing in areas X and Y.

1. _____

2. _____

3. _____

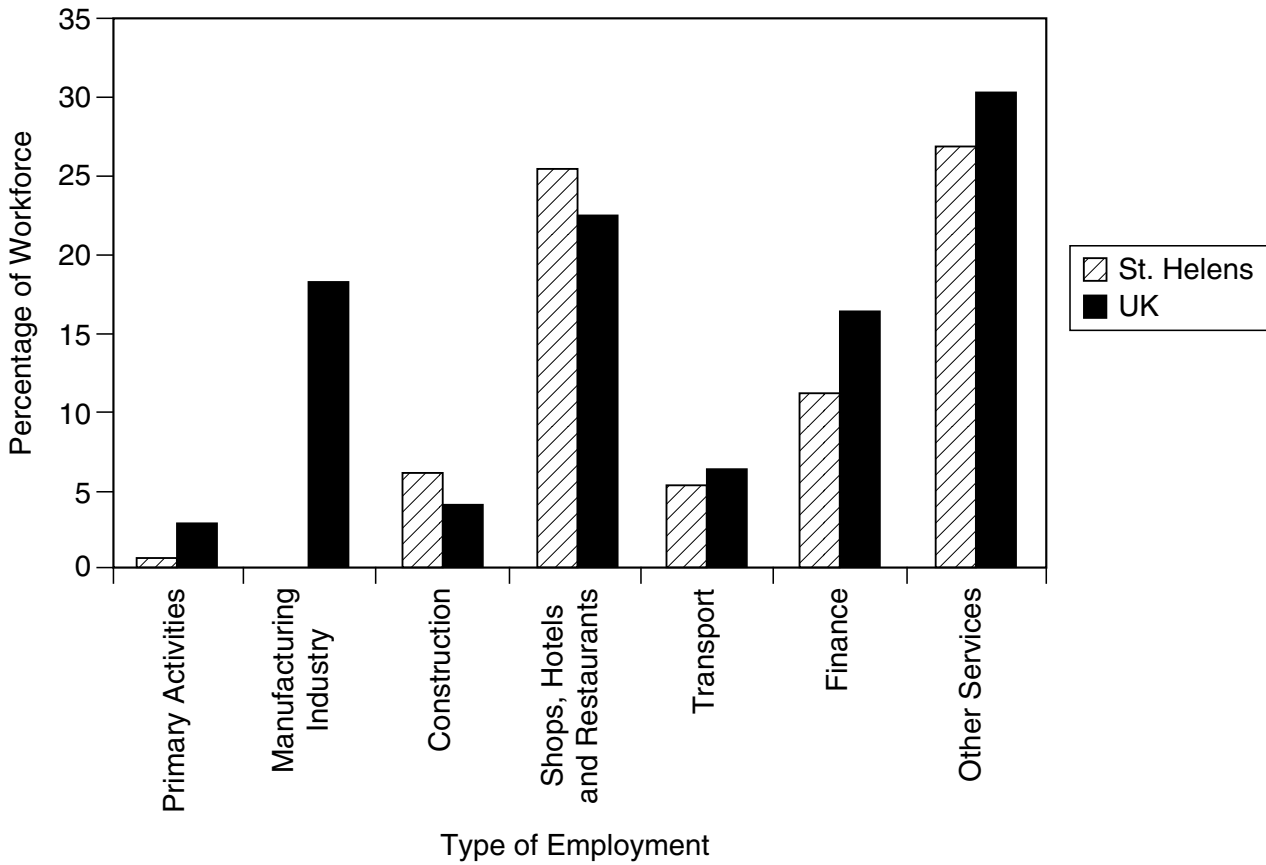
_____ [3]

[Total : 19 marks]

END OF QUESTION 1

2 (a) Study Fig. 2a.

Employment structure in St. Helens and the UK



Adapted from: St. Helens Metropolitan Borough Council Census of Employment, 1993

Fig. 2a

(i) Complete the graph by using the following information:

25% of the workforce of St. Helens is employed in manufacturing industry. [1]

(ii) How important is employment in manufacturing industry in St. Helens compared with the UK as a whole? You should support your answer with figures.

[2]

(b) Study Photograph B on the separate sheet.

(i) Describe **two** features of the factory buildings shown in the photograph.

1. _____

2. _____

[2]

(ii) The factory shown in Photograph B is marked in and around grid square 5196 on the OS map extract.

Use evidence from the OS map extract and photograph to:

1 describe the site on which the factory is built.

2 identify **two** other land uses within 1 kilometre of the factory.

_____ and _____ [3]

(c) Study Fig. 2b.

The process of glass making (which takes place in the factory shown in Photograph B)

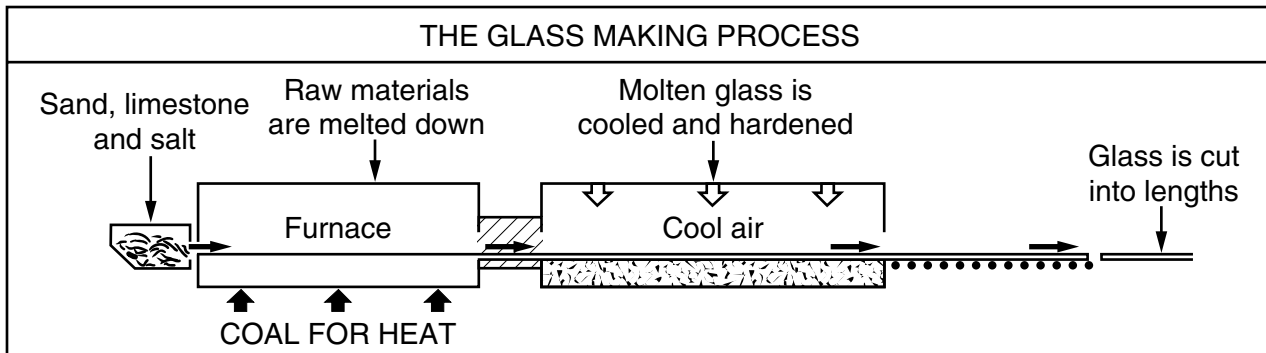
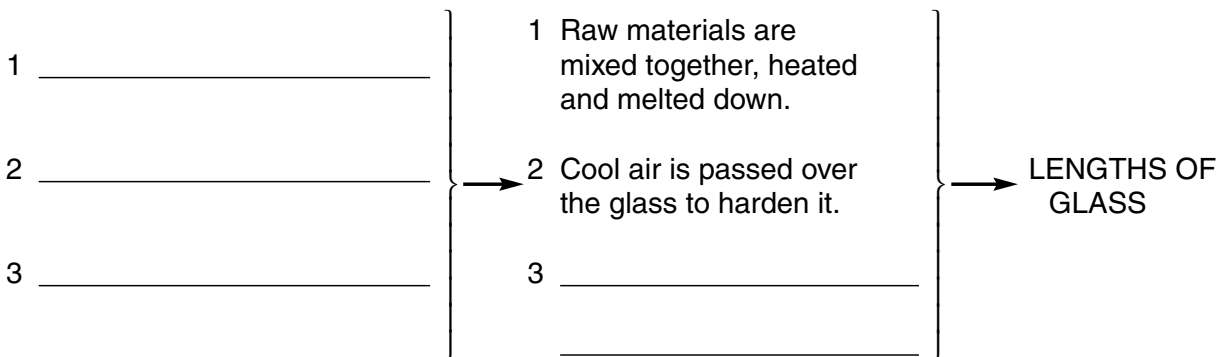
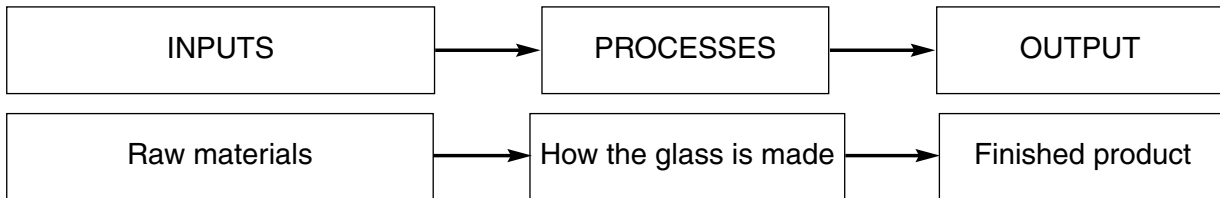


Fig. 2b

Use the information in Fig. 2b to complete the flow diagram.



[2]

(d) Study Fig. 2c.

Original sources of raw materials used in the glass making industry in St. Helens

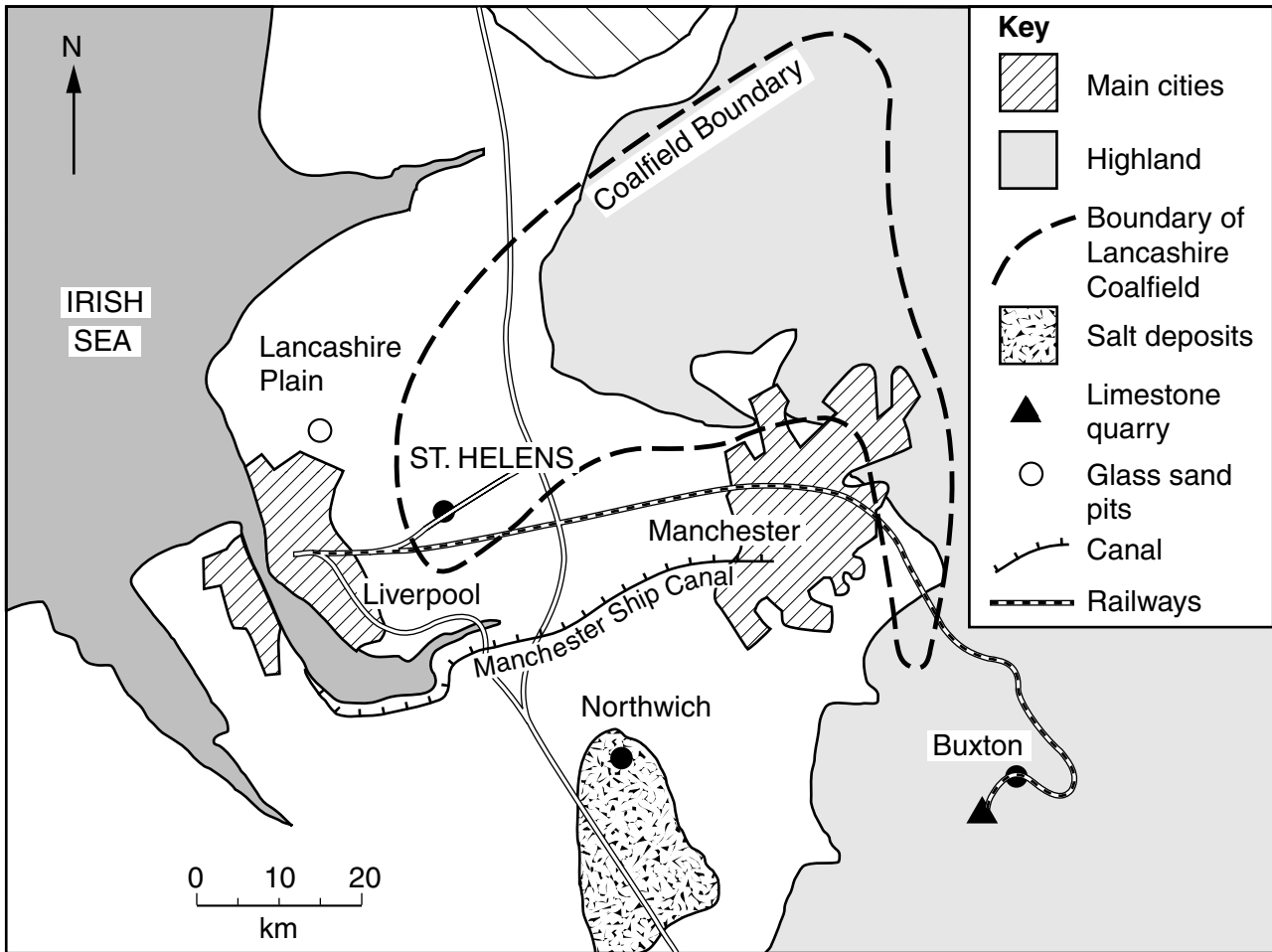


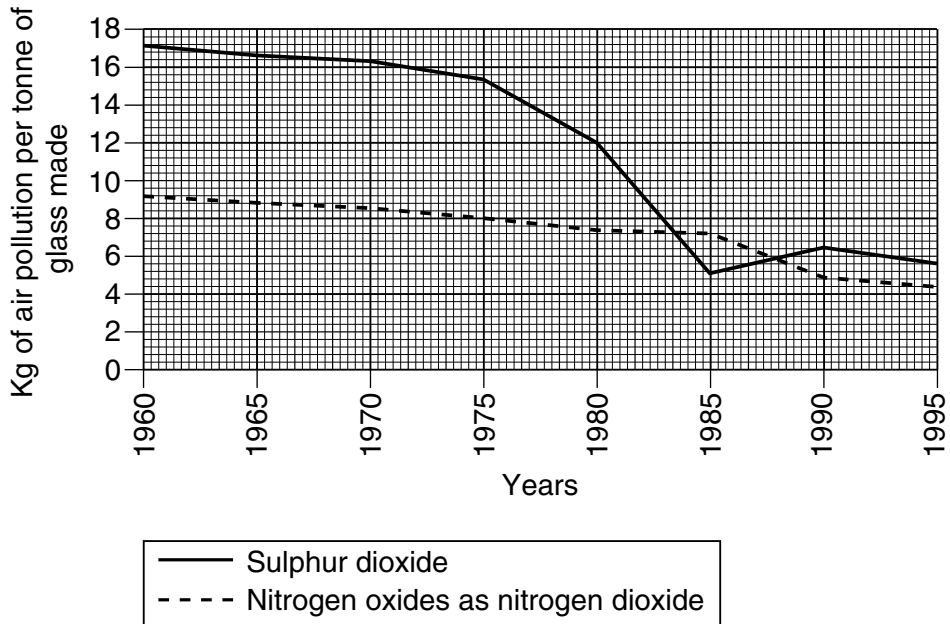
Fig. 2c

Suggest reasons why glass making developed at St. Helens. You should refer to availability of raw materials and any other important factors.

[4]

(e) Study Fig. 2d.

Air pollution from the glass making industry in St. Helens



Acknowledgement: Reprinted with permission from Pilkington plc and St. Helens Council

Fig. 2d

(i) Which gas was the main cause of air pollution between 1960 and 1983?

_____ [1]

(ii) How many kilograms of nitrogen dioxide were produced for every tonne of glass made in 1975?

_____ kg [1]

(iii) Since 1965 the glass making industry has tried to reduce air pollution. Use evidence from Fig. 2d to describe how successful it has been.

 _____ [3]

[Total : 19 marks]

END OF QUESTION 2

