



**Cambridge Assessment International Education**  
Cambridge International General Certificate of Secondary Education

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NAME

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**GEOGRAPHY**

**0460/12**

Paper 1

**May/June 2019**

**1 hour 45 minutes**

Candidates answer on the Question Paper.

Additional Materials:      Ruler  
   Calculator

**READ THESE INSTRUCTIONS FIRST**

Write your centre number, candidate number and name in the spaces provided.

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.

Write your answer to each question in the space provided.

If additional space is required, you should use the lined pages at the end of this booklet. The question number(s) must be clearly shown.

Answer **three** questions, **one** from each section.

The Insert contains Figs. 3.1 and 3.2 for Question 3, Fig. 4.1 for Question 4, Figs. 5.2 and 5.3 for Question 5, and Fig. 6.1 for Question 6.

The Insert is **not** required by the Examiner.

Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

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.

Definitions

MEDCs – More Economically Developed Countries

LEDCs – Less Economically Developed Countries

This syllabus is regulated for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of **27** printed pages, **1** blank page and **1** Insert.



Section A

Answer **one** question from this section.

1 (a) Study Fig. 1.1, which shows information about population growth in the UK.

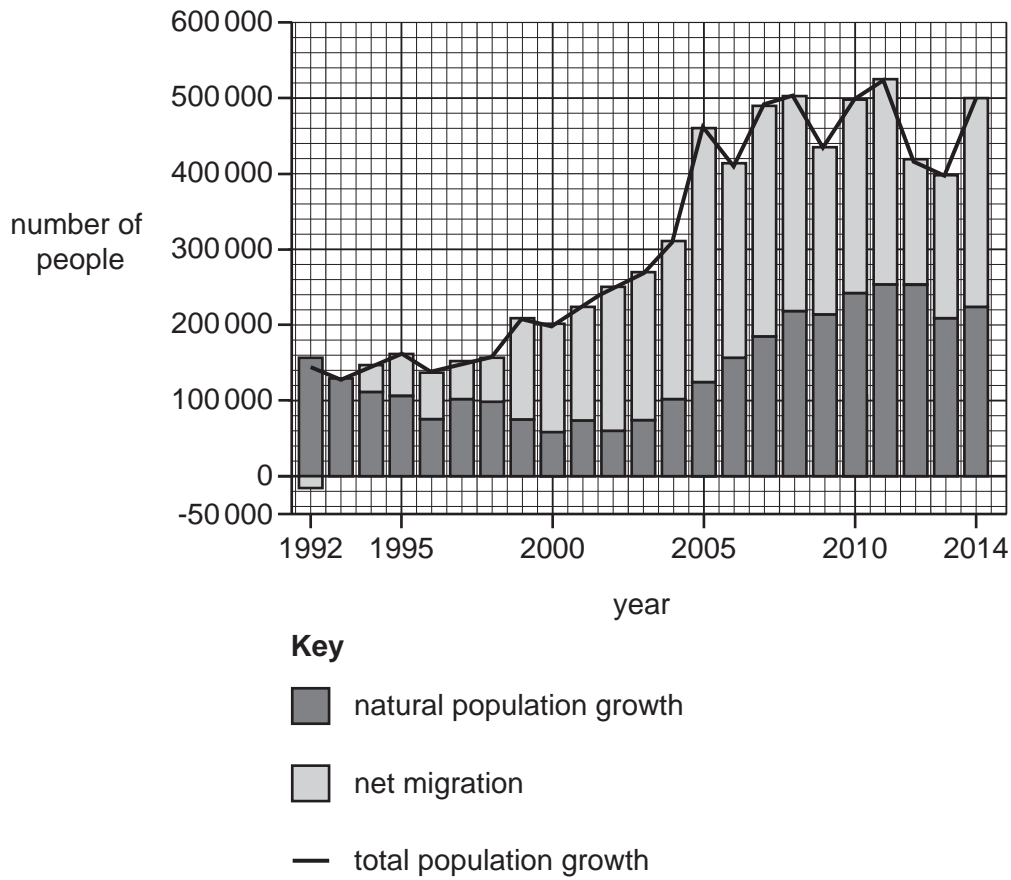


Fig. 1.1

(i) What was the total population growth in the UK in 2014?

.....

[1]

(ii) What is meant by the following terms:

– natural population growth

.....  
 .....

– net migration?

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

3

(iii) Identify from Fig. 1.1 a year when:

- net migration was greater than natural population growth .....
- there were more emigrants than immigrants .....
- the largest total population growth occurred. .... [3]

(iv) Explain why there are low rates of natural population growth in MEDCs such as the UK.

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..... [4]

(b) Study Fig. 1.2, which shows information about population growth in Africa and Europe from 1800 to 2100 (estimated).

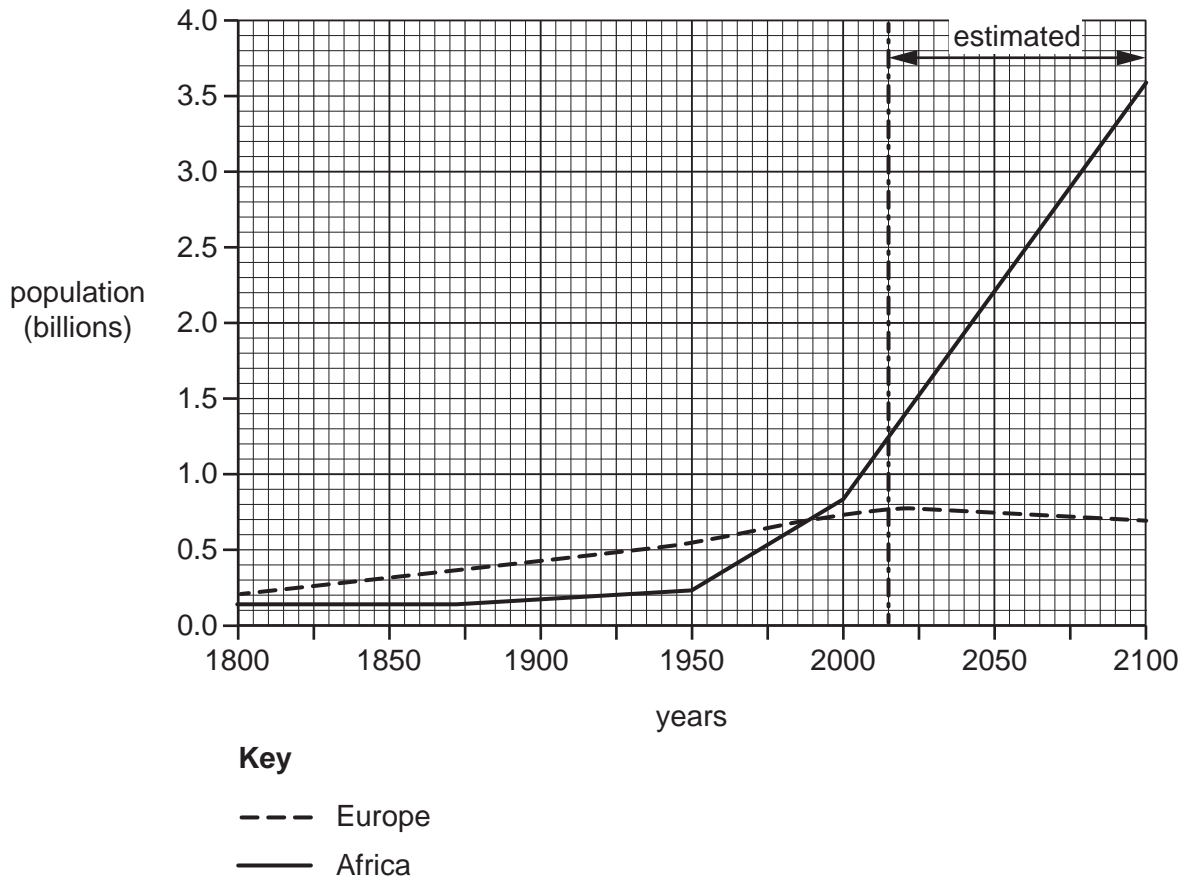


Fig. 1.2

(i) Compare population growth in Africa and Europe between 1800 and 2100 (estimated). You should refer to years and use statistics in your answer.

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.....[3]





2 (a) Study Fig. 2.1, which shows information about a settlement hierarchy.

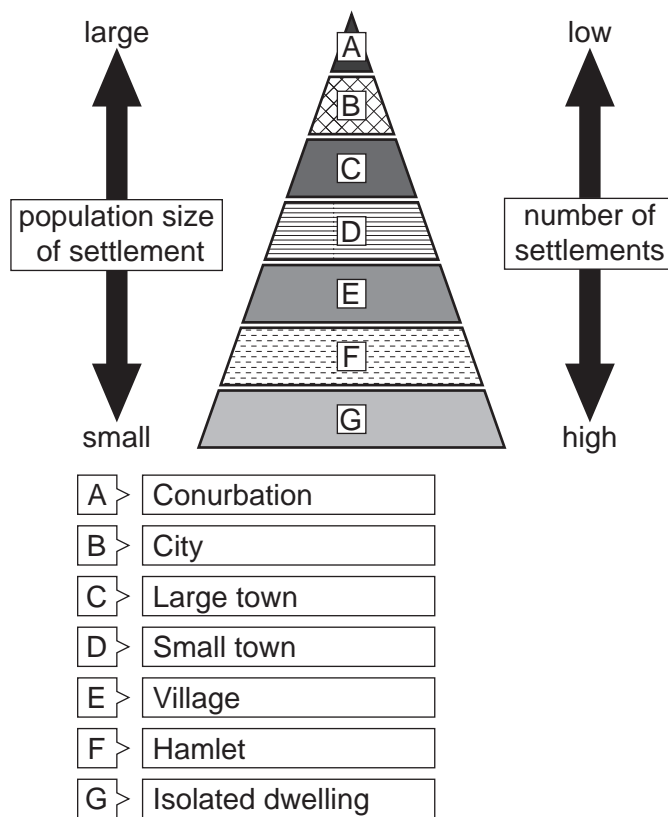


Fig. 2.1

(i) Tick the **one** statement which best describes a settlement hierarchy.

	Tick ✓
An area with large numbers of shops and services	
A method of arranging settlements based on the size of their population	
A diagram to show service provision in the settlements in an area	
The area served by a settlement and its services	

[1]

(ii) Using evidence from Fig. 2.1 **only**, describe the relationship between population size and number of settlements. Give examples of settlement types from Fig. 2.1 in your answer.

.....

.....

.....

.....[2]

(iii) Give **three** examples of high order services which are likely to be located in large cities, such as capital cities.

1 .....

2 .....

3 .....[3]

(iv) Explain why large cities, such as capital cities, have many high order services.

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.....[4]







**Section B**

Answer **one** question from this section.

**3 (a)** Study Fig. 3.1 (Insert), which is a photograph of a river feature.

**(i)** Identify the type of river feature shown on Fig. 3.1.

Choose from the words below:

confluence      meander      mouth      source

..... [1]

**(ii)** Describe **two** characteristics of the rivers shown on Fig. 3.1.

1 .....

.....

2 .....

..... [2]

**(iii)** Explain why erosion is likely to be the main process in the rivers shown in Fig. 3.1.

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..... [3]

**(iv)** Suggest how the river **and** its valley will change further downstream from the area shown in Fig. 3.1.

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..... [4]

(b) Study Fig. 3.2 (Insert), which is a photograph of a waterfall.

(i) Describe **three** features of the waterfall shown in Fig. 3.2.

- 1 .....
- .....
- 2 .....
- .....
- 3 .....
- .....[3]

(ii) Explain how a waterfall is formed on a river. You may use a labelled diagram or diagrams.

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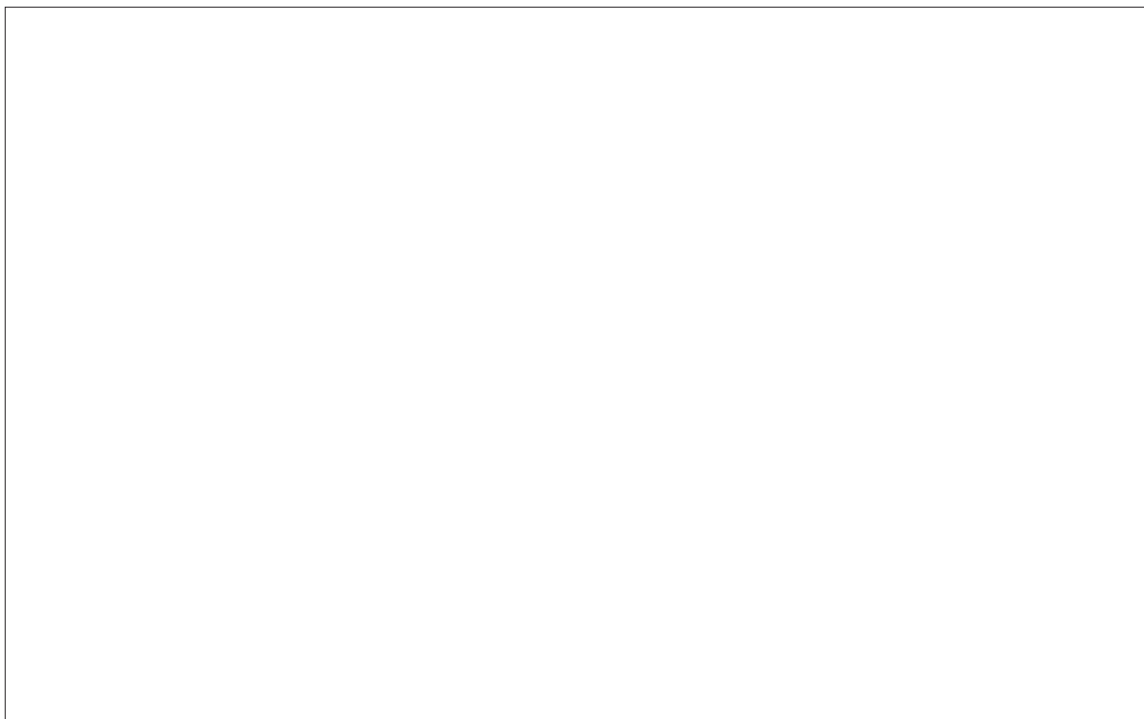
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[5]



4 (a) Study Fig. 4.1 (Insert), which is a map which shows the Pacific Ring of Fire.

(i) Explain why the shaded area is known as the Pacific *Ring of Fire*.

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

(ii) Compare the location of Mauna Loa and Ruapehu volcanoes.

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.....[2]

(iii) Explain why there are active volcanoes on converging plate boundaries.

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- (b) Study Fig. 4.2, which is a diagram showing the number of earthquakes occurring on Mauna Loa between 2010 and 2015.

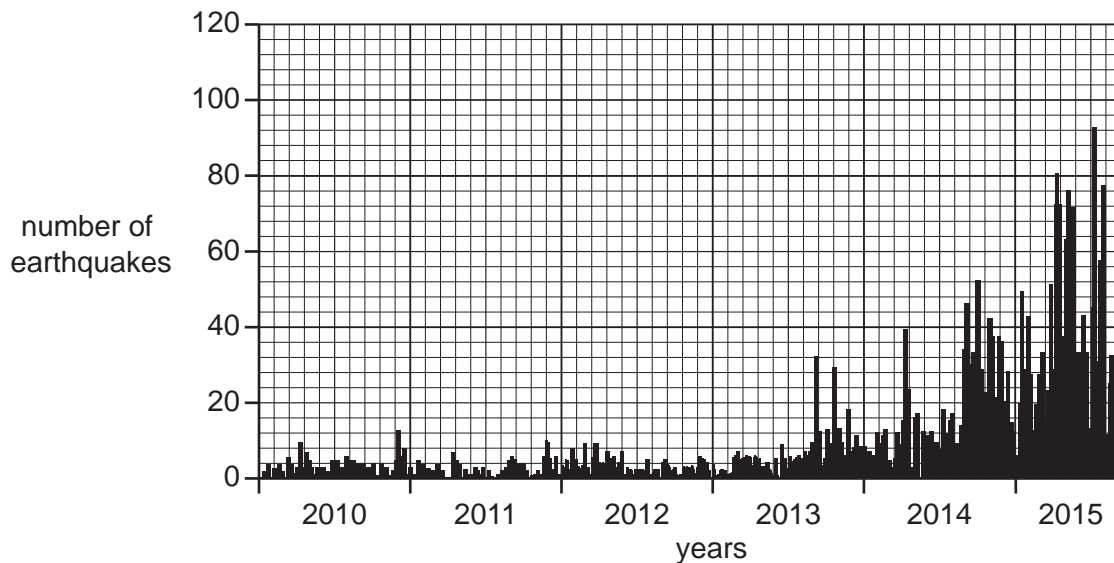


Fig. 4.2

- (i) Using Fig. 4.2 **only**, describe the changes in the number of earthquakes on Mauna Loa between 2010 and 2015.

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[3]

- (ii) Monitoring is one way to reduce the impacts of earthquakes and volcanoes. Describe other ways to reduce the impacts of earthquakes and volcanoes on people.

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[4]

**(iii)** Explain why earthquakes and volcanoes cause more deaths and injuries in LEDCs than MEDCs.

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Section C

Answer **one** question from this section.

- 5 (a) Study Fig. 5.1, which shows two traditional methods of irrigation used by subsistence farmers.

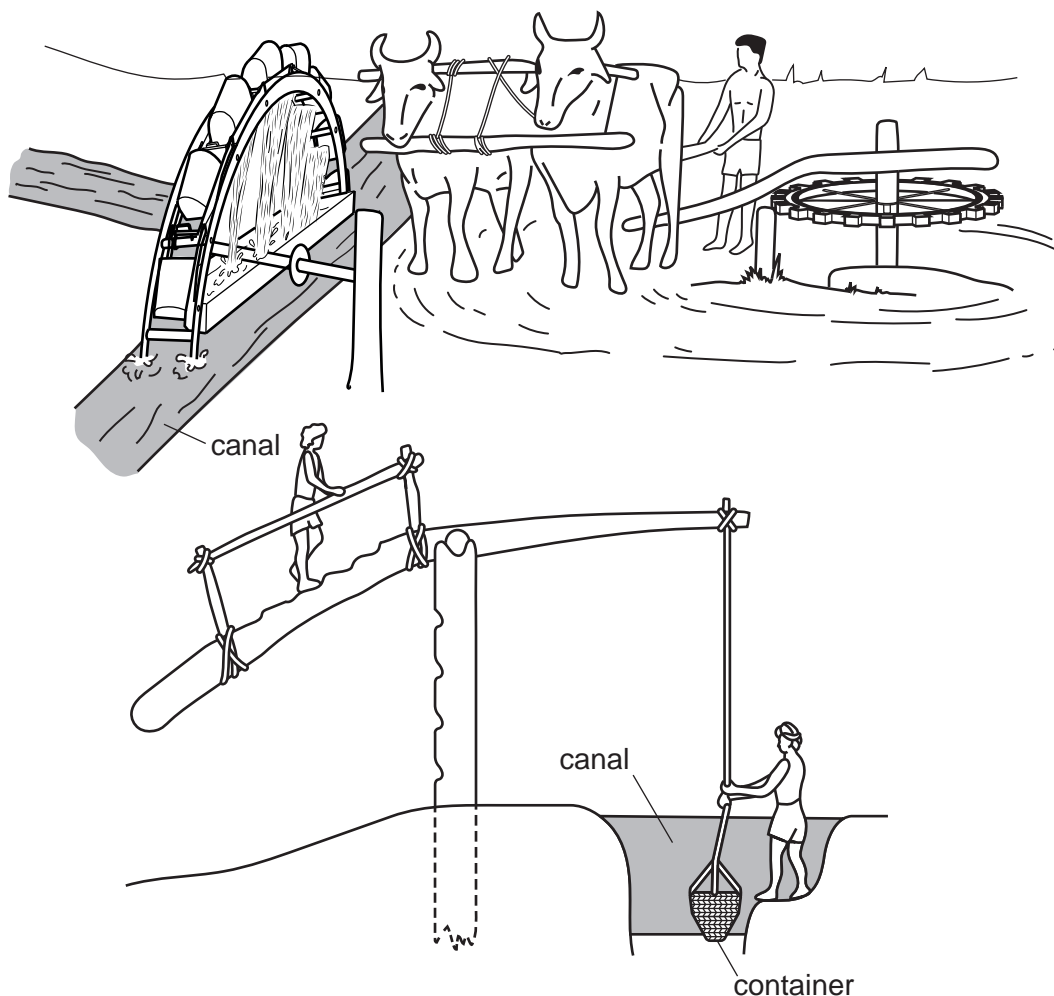


Fig. 5.1

- (i) What is meant by a *subsistence farmer*?

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

- (ii) Explain why irrigation increases the yield of crops.

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

(iii) Explain why the methods of irrigation shown in Fig. 5.1 are suitable to use in LEDCs.

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.....[3]

(iv) Describe **four** other methods which farmers can use to increase the yield of crops.

1 .....  
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2 .....  
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.....[4]

(b) Study Figs. 5.2 and 5.3 (Insert), which are photographs taken on a mixed farm.

(i) State **three** processes which will take place on the mixed farm shown in Figs. 5.2 and 5.3.

- 1 .....  
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- 2 .....  
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- 3 .....  
.....[3]

(ii) Describe the advantages of mixed farming.

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6 (a) Study Fig. 6.1 (Insert), which shows information about sources of electricity in Mexico (an LEDC).

(i) State the number of nuclear power stations in Mexico.

..... [1]

(ii) Using Fig. 6.1 **only**, name **one** renewable and **one** non-renewable source of electricity in Mexico.

– renewable .....

– non-renewable .....[2]

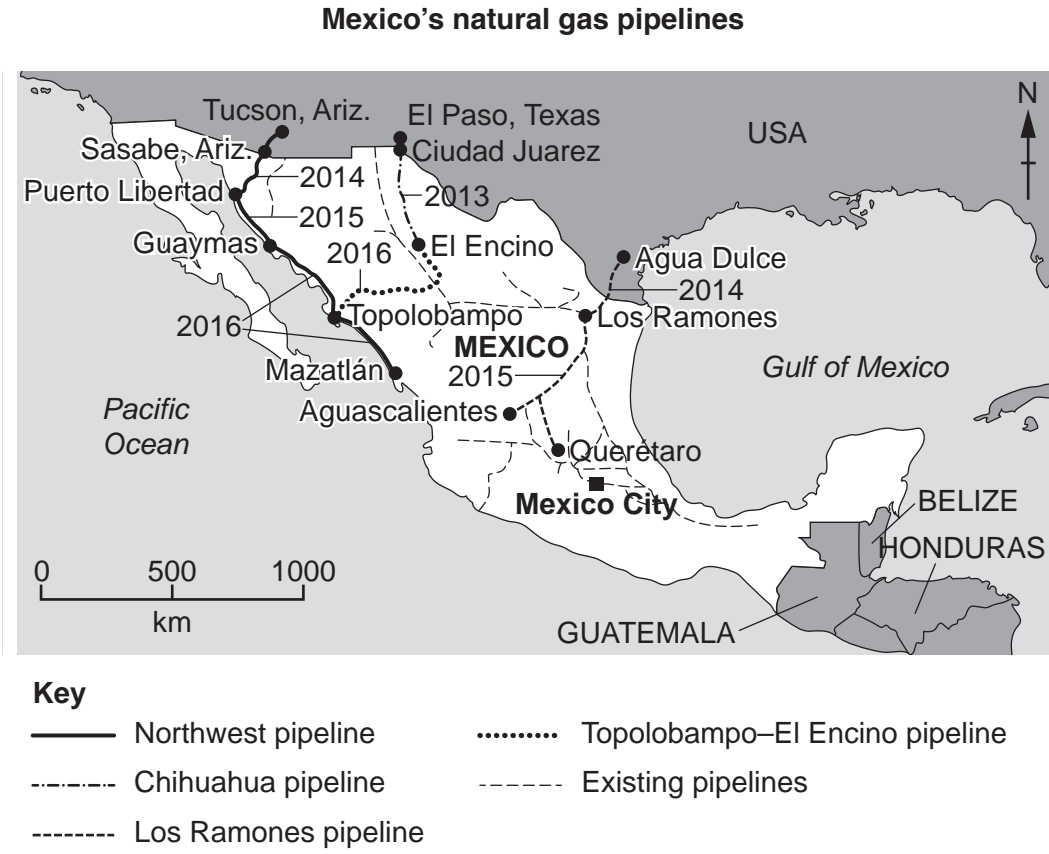
(iii) Compare the importance of different sources of electricity in the states of Sonora and Sinaloa.

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(iv) Suggest reasons why some parts of Mexico are able to generate large amounts of electricity from hydro-electric power (HEP).

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(b) Study Fig. 6.2, which shows information about natural gas pipelines in Mexico.



**Fig. 6.2**

(i) Name and describe the route of any one natural gas pipeline between the USA and Mexico.

Name .....

Description of route .....

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.....[3]







**Additional Pages**

If you use the following lined pages to complete the answer(s) to any question(s), the question number(s) must be clearly shown.

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