



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

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**BANGLADESH STUDIES**

**0449/02**

Paper 2 Environment and Development of Bangladesh

**May/June 2016**

**1 hour 30 minutes**

Additional Materials:      Insert

**READ THESE INSTRUCTIONS FIRST**

Write your Centre number, candidate number and name in the boxes above.

Write in dark blue or black pen.

You may use an HB pencil for any sketch maps, 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 page at the end of this booklet. The question number(s) must be clearly shown.

Answer **three** questions.

You are advised to spend about 30 minutes on each question.

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

The Insert contains Photographs A and B for Question 4(a).

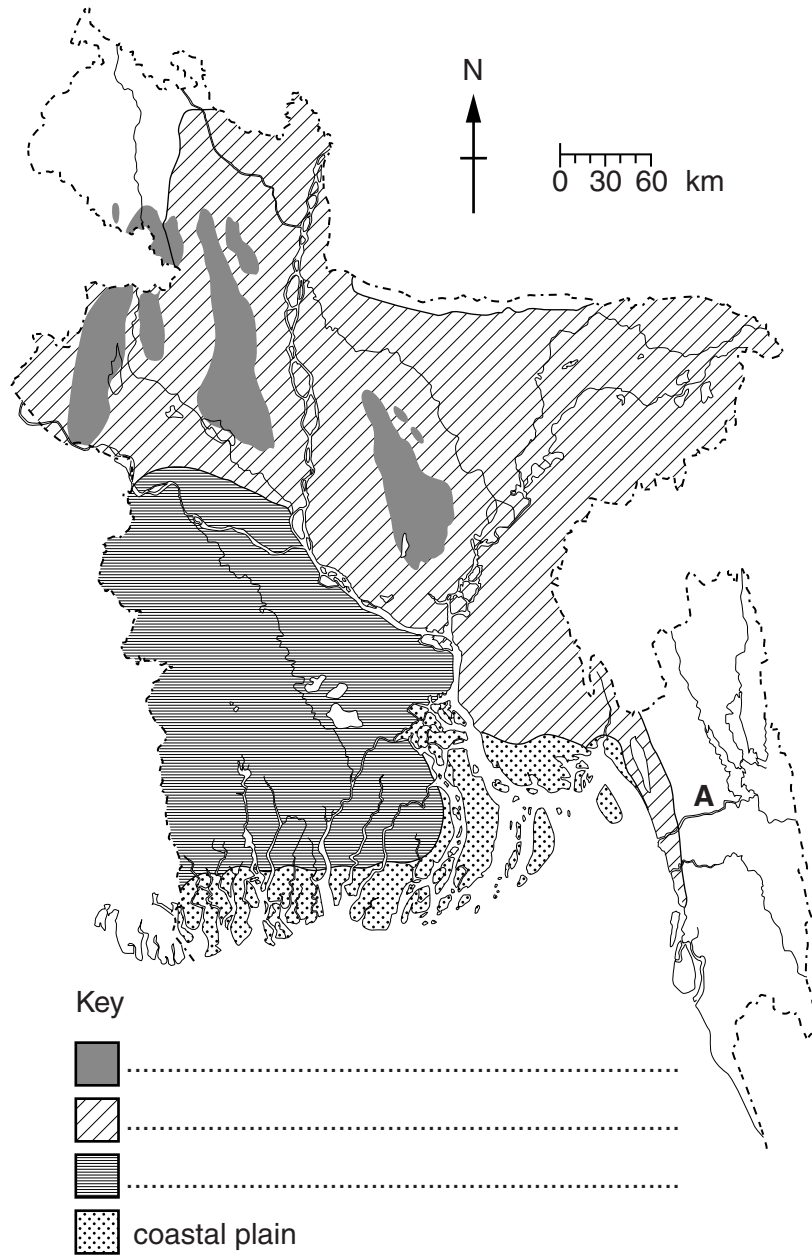
The Insert is **not** required by the Examiner.

This document consists of **22** printed pages, **2** blank pages and **1** insert.



Answer **three** questions.

1 (a) (i) Study Fig. 1, a map showing some physical regions of Bangladesh.



**Fig. 1**

Name river **A** .....

Complete the key for the following physical regions.

- deltaic plain
- flood plain
- uplands

[4]

(ii) Describe the physical characteristics of the deltaic plain and the uplands.

deltaic plain .....

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uplands .....

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(iii) Explain how flood plains are formed. You may use a diagram to illustrate your answer.

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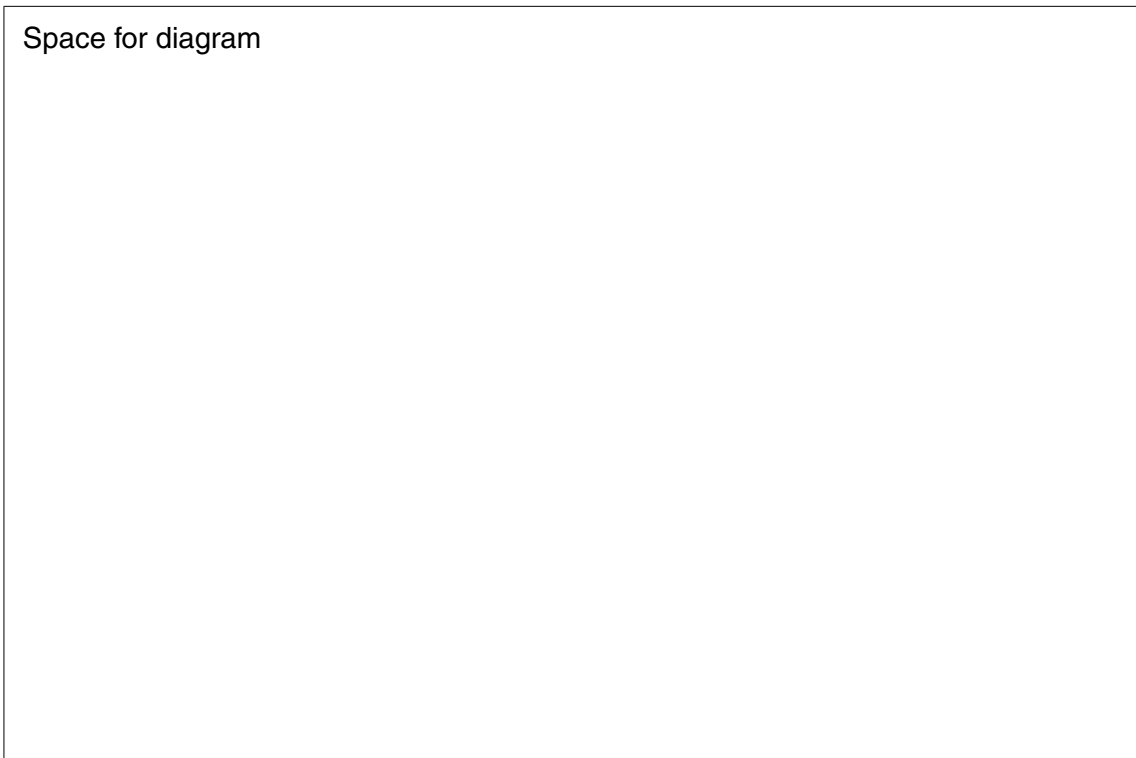
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(b) Study Fig. 2 which shows the climate for Bangladesh and the growing seasons of three types of rice.

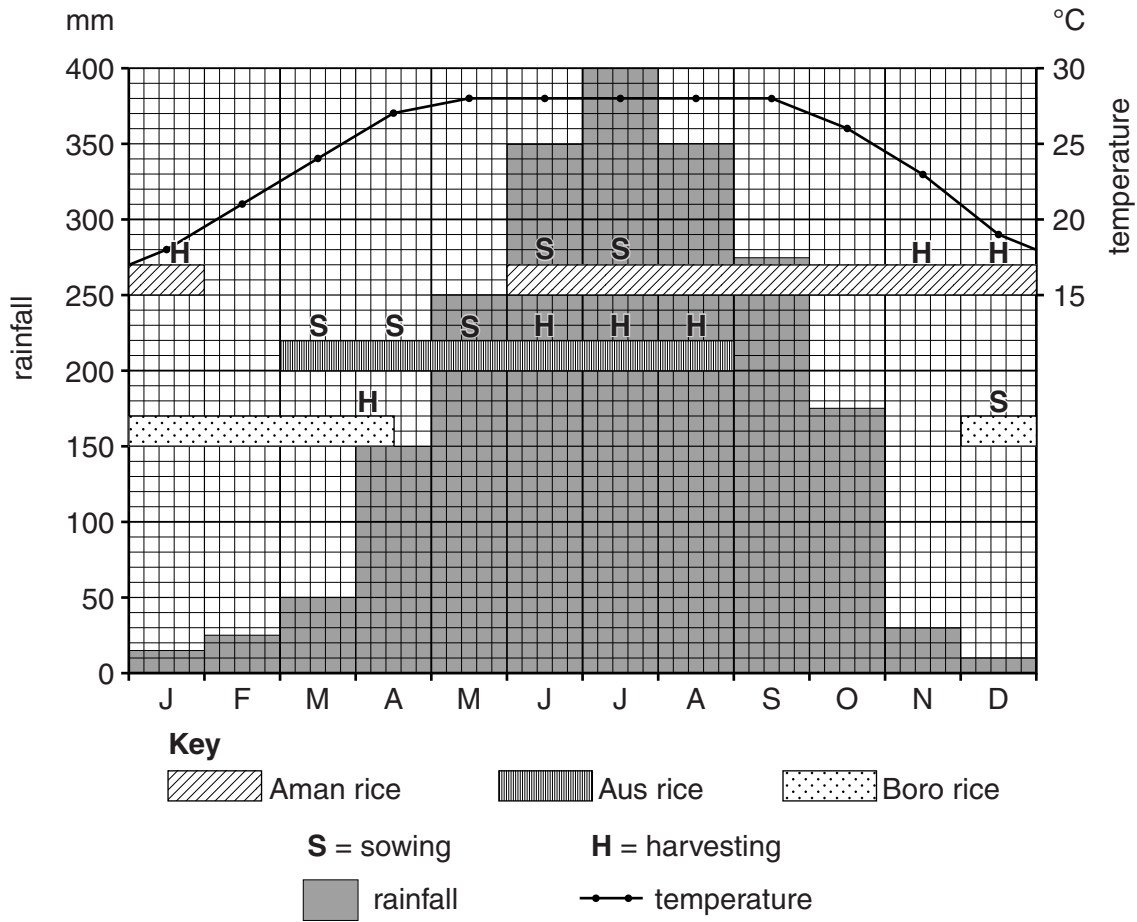


Fig. 2

(i) How long is the growing season for Boro rice?

..... months [1]

(ii) Using Fig. 2, compare the climatic conditions for growing Aus rice with those for growing Boro rice.

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(c) (i) Describe the processes involved in preparing the land for the sowing and harvesting of rice in Bangladesh.

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(ii) Explain how farmers can increase rice production.

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(d) Study the two statements below.

A 'The topography (physical features) of Bangladesh is very beneficial for the farmers.'  
B 'The topography (physical features) of Bangladesh presents many problems for the farmers.'

(i) Give **one** piece of evidence which supports statement A.

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

(ii) Give **one** piece of evidence which supports statement B.

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

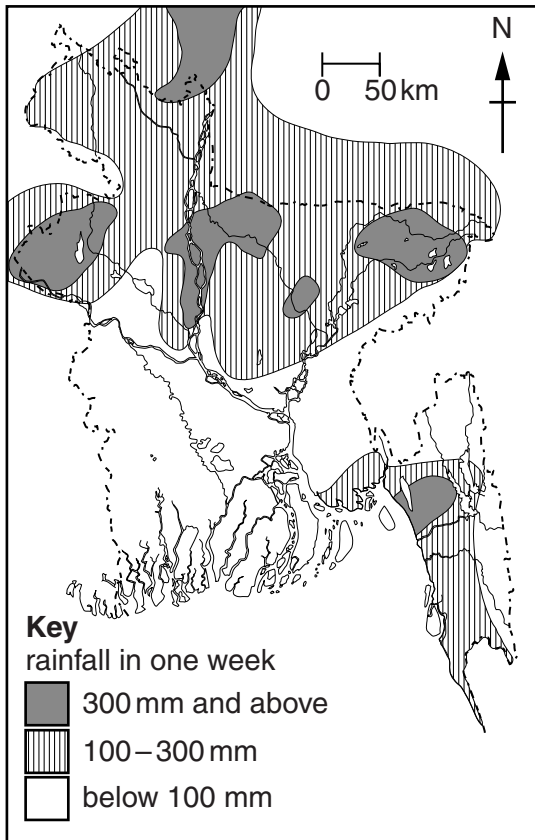
(iii) Which statement do you agree with the most? Give reasons for your answer.

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[Total: 25 marks]  
[Turn over

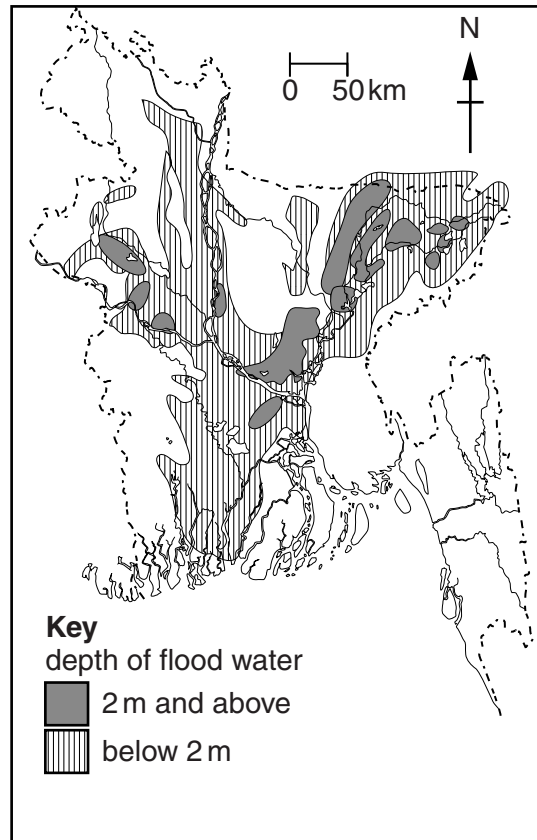
- 2 (a) Study Fig. 3 and Fig. 4 which show average rainfall and depth of flood water in July in Bangladesh.

**Rainfall in one week**



**Fig. 3**

**The depth of flood water two weeks later**



**Fig. 4**

- (i) Using compass directions only, describe where more than 100mm of rain fell in Bangladesh.

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.....[2]

- (ii) Describe the general pattern of the floods.

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.....[2]

(iii) Explain why the floods were so severe two weeks after the week of heavy rain.

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(b) Explain how floods affect the people and the economy of Bangladesh.

people .....

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economy .....

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.....[4]

(c) (i) Study Fig. 5, a pie chart showing the percentage of air pollution caused by industries.

Complete Fig. 5, showing the five most air polluting industries of Bangladesh, using the following information.

- Cement/clay – 16%
- Pulp and paper – 14%
- Textile – 10%

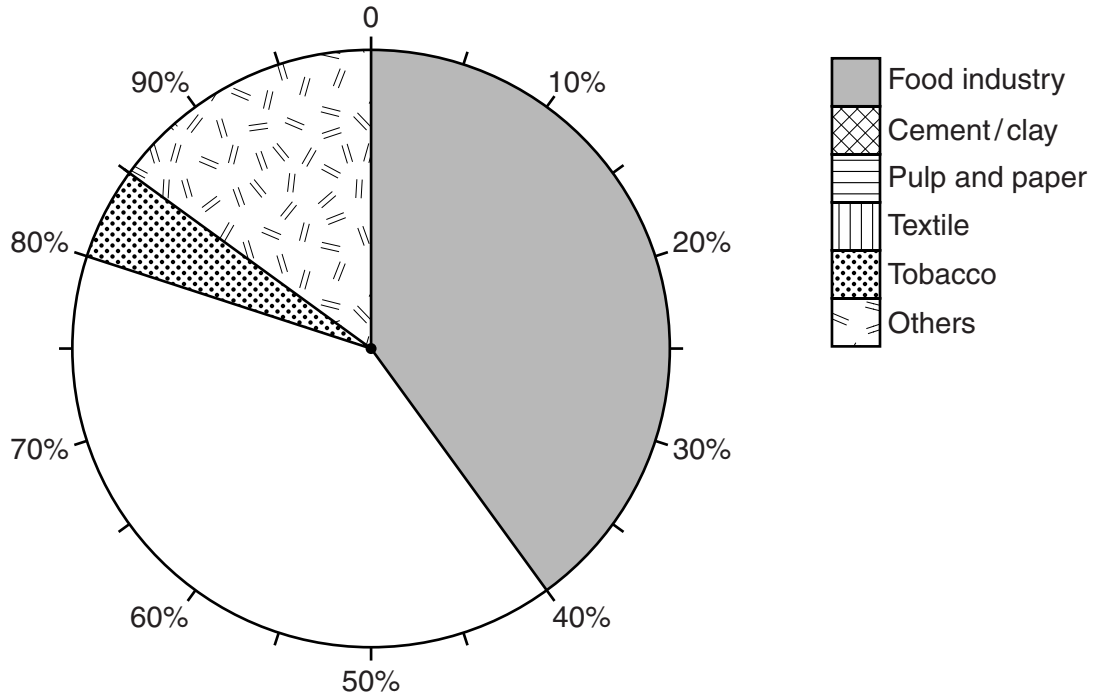


Fig. 5

[3]

(ii) What percentage of the total air pollution is caused by the five most polluting industries?

..... %

[1]

(iii) Apart from an industry, name a major cause of air pollution in Bangladesh.

.....[1]



(d) Explain how the government is trying to reduce air pollution in Bangladesh.

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(e) Study the statement below.

‘Controlling the flooding of rivers in Bangladesh is almost impossible.’

(i) Give **one** piece of evidence which supports this statement.

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(ii) Give **one** piece of evidence which shows how rivers can be controlled.

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.....[1]

(iii) How far do you agree with the statement? Give reasons for your answer.

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**[Total: 25 marks]**

3 (a) Study Fig. 6 which shows gas fields, gas pipelines and fertiliser factories.

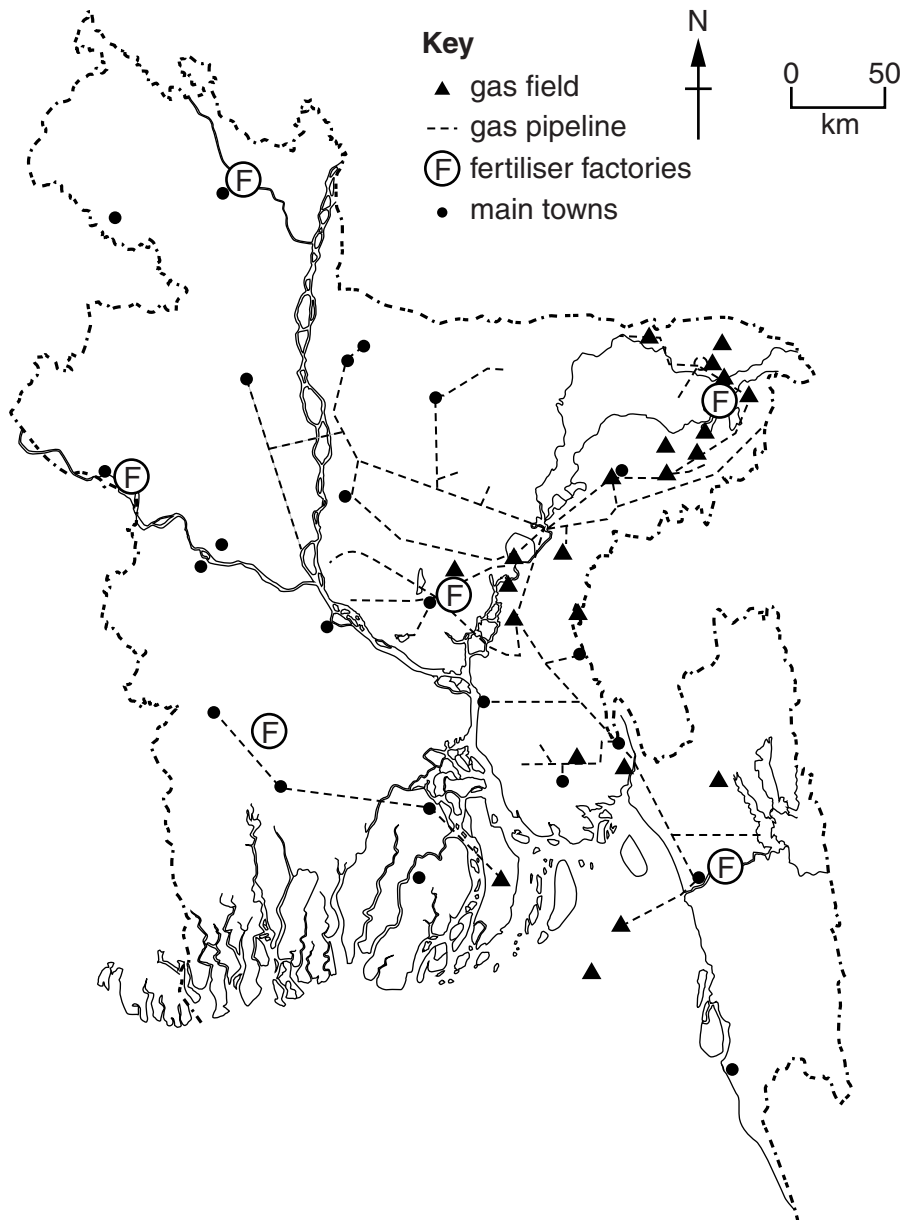


Fig. 6

Describe the general distribution of gas fields and the network of gas pipelines.

gas fields .....

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gas pipelines .....

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.....[4]

(b) Fig. 7 shows the percentage of natural gas consumption by different sectors.

Complete Fig. 7 using the following information.

- industry – 20%
- domestic use – 10%
- fertiliser manufacture – 10%

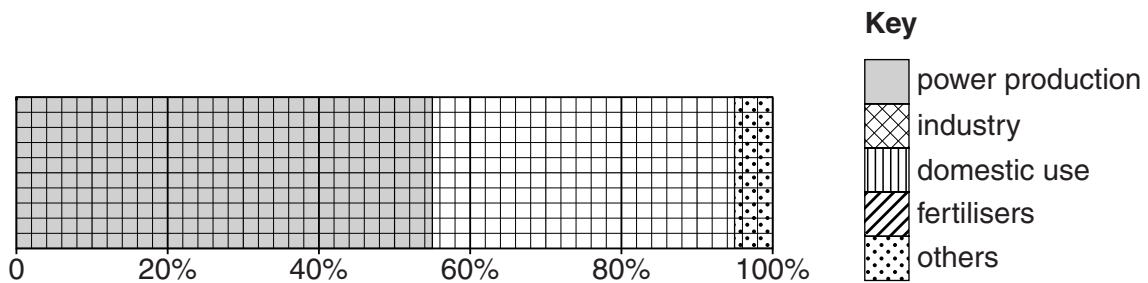


Fig. 7

[3]

(c) (i) Using Fig. 6, suggest one reason for the distribution of fertiliser factories in Bangladesh.

.....

.....[1]

(ii) Explain the importance of the production of fertilisers to farmers and to the economy of Bangladesh.

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(d) Climate change will affect agriculture in Bangladesh.

(i) Name two gases that are causing global warming.

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.....[2]

(ii) Explain how human activities cause the increased production of these gases.

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(iii) Explain the effect climate change will have on agriculture and the food supply of Bangladesh.

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(e) Study the two statements below.

A 'Bangladesh is not a major contributor to climate change.'

B 'Bangladesh will be one of the countries worst affected by climate change.'

(i) Give **one** piece of evidence which supports statement A.

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

(ii) Give **one** piece of evidence which supports statement B.

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

(iii) Do you think other nations should help Bangladesh cope with the effects of climate change? Give reasons for your answer.

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**[Total: 25 marks]**



**(b) (i)** Describe how government policies protect new industries in Bangladesh.

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**(ii)** Explain how Bangladesh can overcome obstacles to industrialisation, other than ways mentioned in **(b)(i)**.

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**(c) (i)** Explain why the financial sector is important for industry in Bangladesh.

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**(ii)** What is meant by 'micro-credit'?

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(iii) Explain why micro-credit has been successful in Bangladesh.

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.....[2]

(d) Study the two statements below.

A 'Bangladesh's increased economic growth depends on expanding the small scale industrial sector.'

B 'To maintain economic growth Bangladesh needs to improve its large scale industries.'

(i) Give **one** piece of evidence which supports statement A.

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

(ii) Give **one** piece of evidence which supports statement B.

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

(iii) Which statement do you agree with the most? Give reasons for your answer.

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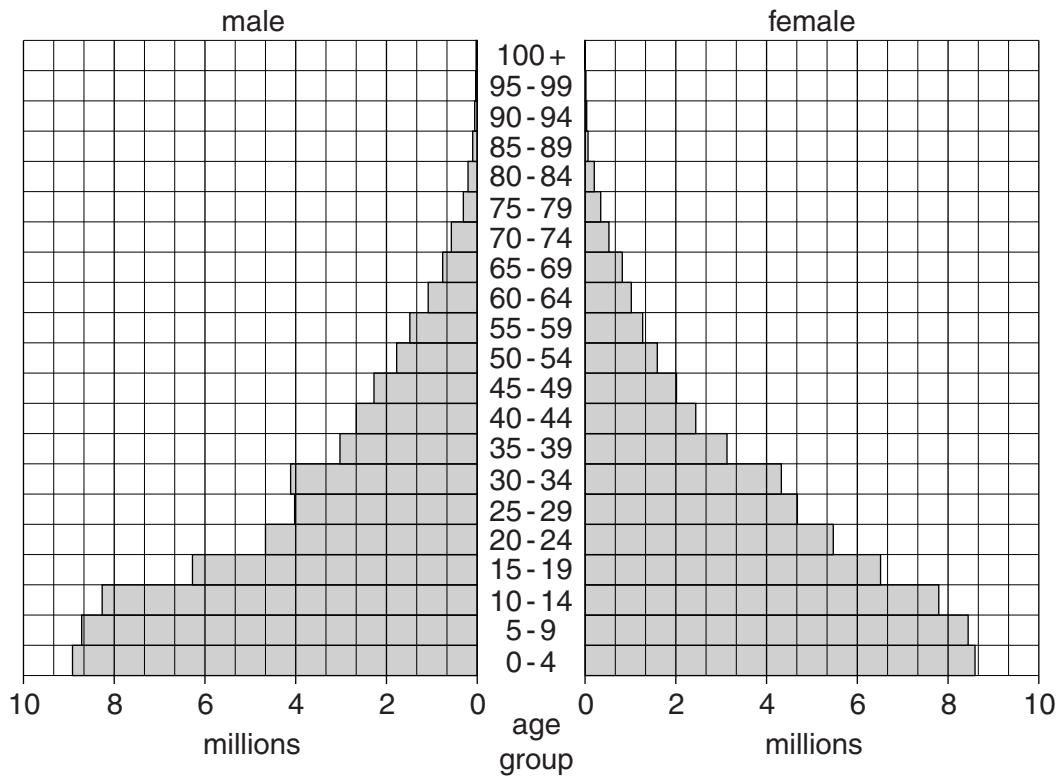
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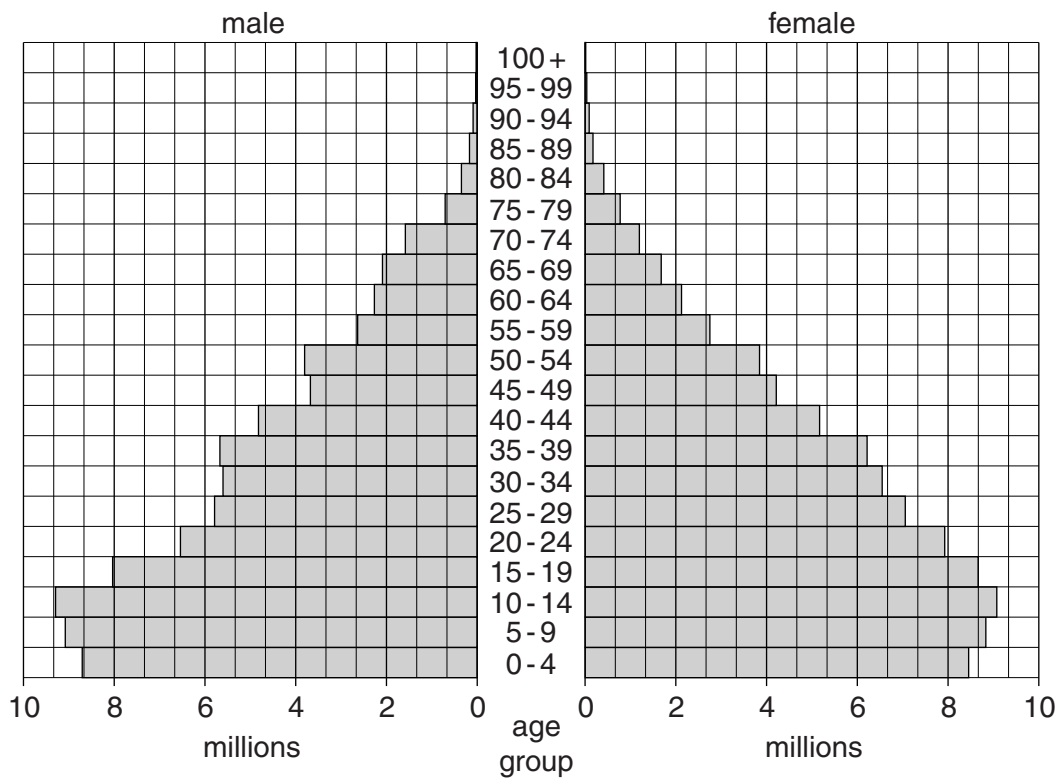
- 5 (a) Study Fig. 9A and Fig. 9B, which show population structures for Bangladesh in 1994 and 2014.

**Population structure, Bangladesh 1994**



**Fig. 9A**

**Population structure, Bangladesh 2014**



**Fig. 9B**





(ii) Explain how an increase in the literacy rate improves the development of Bangladesh.

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(iii) Apart from increasing the literacy rate, describe **two** other educational challenges for Bangladesh.

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**Please turn over for 5(d)**

(d) Study the two statements below.

A 'Improved health care is the best way to slow down population growth in Bangladesh.'

B 'Increased educational opportunity is the best way to slow down population growth in Bangladesh.'

(i) Give **one** piece of evidence which supports statement A.

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

(ii) Give **one** piece of evidence which supports statement B.

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

(iii) Which statement do you agree with the most? Give reasons for your answer.

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**[Total: 25 marks]**



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