CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

GEOGRAPHY   **0460/11**

Paper 1   **October/November 2013**

           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 a soft pencil for any diagrams, graphs or rough working.
Do not use staples, paper clips, highlighters, glue or correction fluid.
DO **NOT** WRITE ON 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.

This Insert contains Figs 3A and 3B for Question 2, Photograph A for Question 3, Photograph B for Question 4, and Photographs C, D and E 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.

For Examiner's Use	
Q1	
Q2	
Q3	
Q4	
Q5	
Q6	
Total	

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

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International Examinations

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QUESTION 1

(a) Study Fig. 1, which shows information about the birth and death rates of Sudan (LEDC) and Canada (MEDC).

Country	Birth rate (per 1000 of population)	Death rate (per 1000 of population)	Infant mortality rate (per 1000 live births)
Sudan	36.1	11.0	68.1
Canada	10.2	8.0	4.9

Fig. 1

(i) Sudan has an infant mortality rate of 68.1. What is meant by this?

....

....[1]

(ii) Calculate the natural population growth rate of Canada.
You must show your calculations in the box below.

Natural population growth rate = ... per 1000

[2]

(iii) Give **three** reasons why there are low death rates in MEDCs such as Canada.

1 ....

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2 ....

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3 ....

....[3]

(iv) Explain why there are high birth rates in LEDCs such as Sudan.

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....[4]

(b) Study Fig. 2, which shows information about population change.

Population Change (%)

Key

population decrease

□

population increase

□ +0 to 1.0%

■ +1.1% to 2.0%

■ +2.1% to 3.0%

■ +3.1% to 5.0%
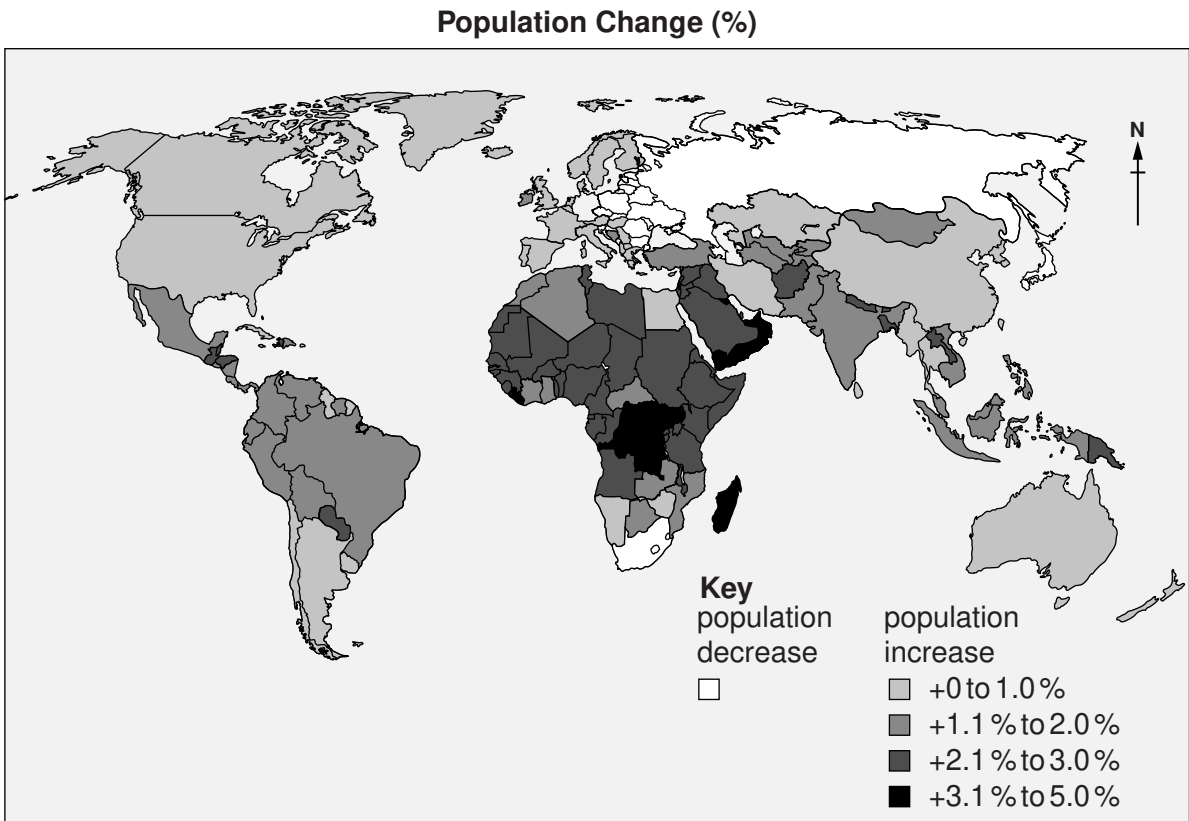
Fig. 2

(i) Compare the population change in Africa with that in South America. Refer to information from Fig. 2.

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....[3]

(ii) Explain why the governments of many LEDCs are trying to reduce their country's rates of population growth.

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(c) The population of a country can change as a result of migration.

Choose an example of an international migration which you have studied and name the countries between which people moved. By reference to both pull and push factors, explain why many people made the decision to migrate.

Example of international migration   From .... to ....

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[Total: 25 marks]

END OF QUESTION 1

QUESTION 2

(a) Study Figs 3A and 3B (Insert), maps which show areas close to Caen in France.

(i) The maps in Figs 3A and 3B show both urban and rural settlements. What is the difference between an *urban* and a *rural* settlement?

....

....[1]

(ii) Find the settlements of La Brèche d'Hermanville and St. Aubin d'Arquenay on Fig. 3A. For **each** settlement underline the correct word which describes it.

La Brèche d'Hermanville

nucleated   linear   dispersed

St. Aubin d'Arquenay

nucleated   linear   dispersed   [2]

(iii) Between Le Ham and Brocottes, shown on Fig. 3B, there is an area of dispersed rural settlement. Describe **three** characteristics of an area of dispersed rural settlement.

1 ....

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2 ....

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3 ....

....[3]

(b) Study Figs 4A, 4B and 4C, which show information about the town of Savignano in Italy (MEDC in Europe).
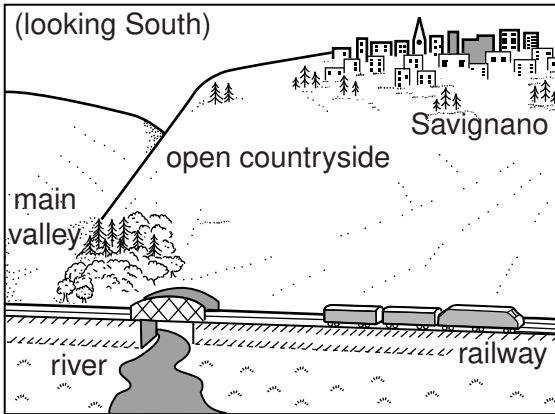

Fig. 4A
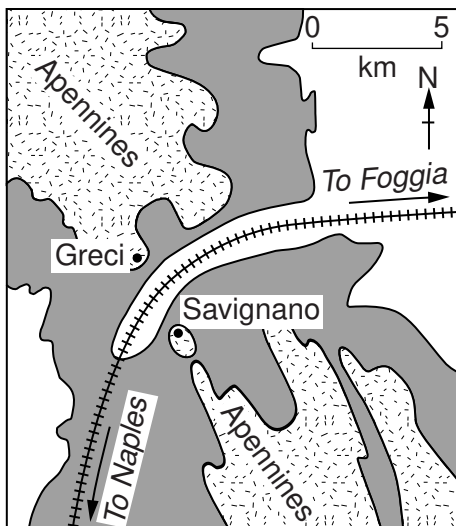
Key

- Over 1000 metres
- 400–999 metres
- Under 400 metres
- • settlement
- ┼┼┼┼ railway

Fig. 4B
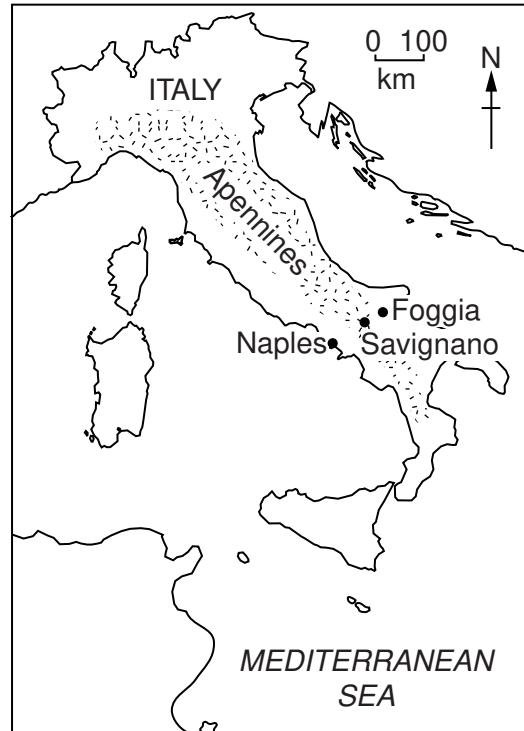
Fig. 4C

(i) Describe the site of Savignano.

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(ii) Suggest reasons to explain the site of Savignano.

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(iii) Suggest the likely impacts of the growth of urban areas such as Savignano on the natural environment.

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(c) State one function of a large urban area which you have studied.
Explain why the urban area has this function.

Name of urban area ....

Function ....

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[Total: 25 marks]

END OF QUESTION 2

QUESTION 3

(a) Study Fig. 5, which shows different types of weathering and their causes.
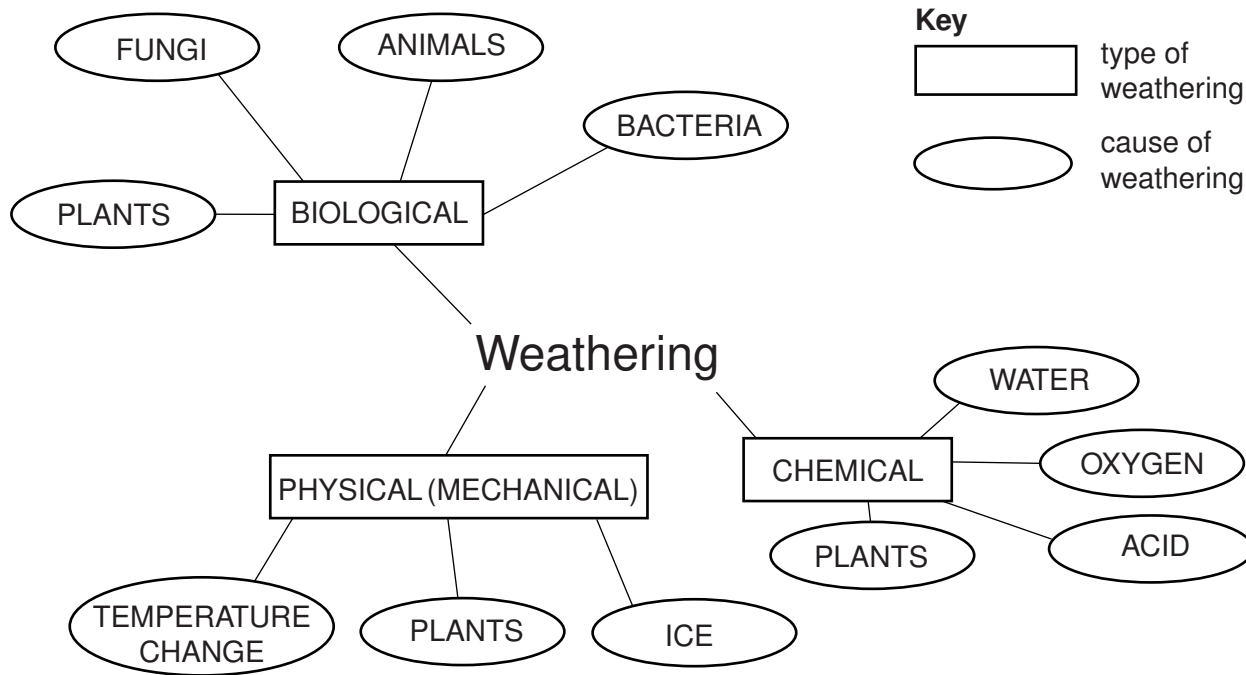
Fig. 5

(i) Using Fig. 5, identify **one** cause of physical (mechanical) weathering and **one** cause of chemical weathering.

Cause of physical (mechanical) weathering ....

Cause of chemical weathering ....[1]

(ii) Name:

a type of physical (mechanical) weathering caused by ice;

....

a type of chemical weathering caused by acid.

....[2]

(iii) Describe how biological weathering occurs.

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....[3]

(iv) Explain the main factors which influence the type and rate of weathering.

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....[4]

(b) Study Photograph A (Insert), which shows a landscape formed in a tropical desert area.

(i) Describe the appearance of the landscape shown on Photograph A.

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....[3]

(ii) Exfoliation is one process of weathering operating in the area shown in Photograph A.
Describe how this process occurs.
You may use a labelled diagram in your answer.

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[5]

(c) For a named area of tropical desert which you have studied, describe and explain the characteristics of its climate.

Name of tropical desert ....

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[Total: 25 marks]

END OF QUESTION 3
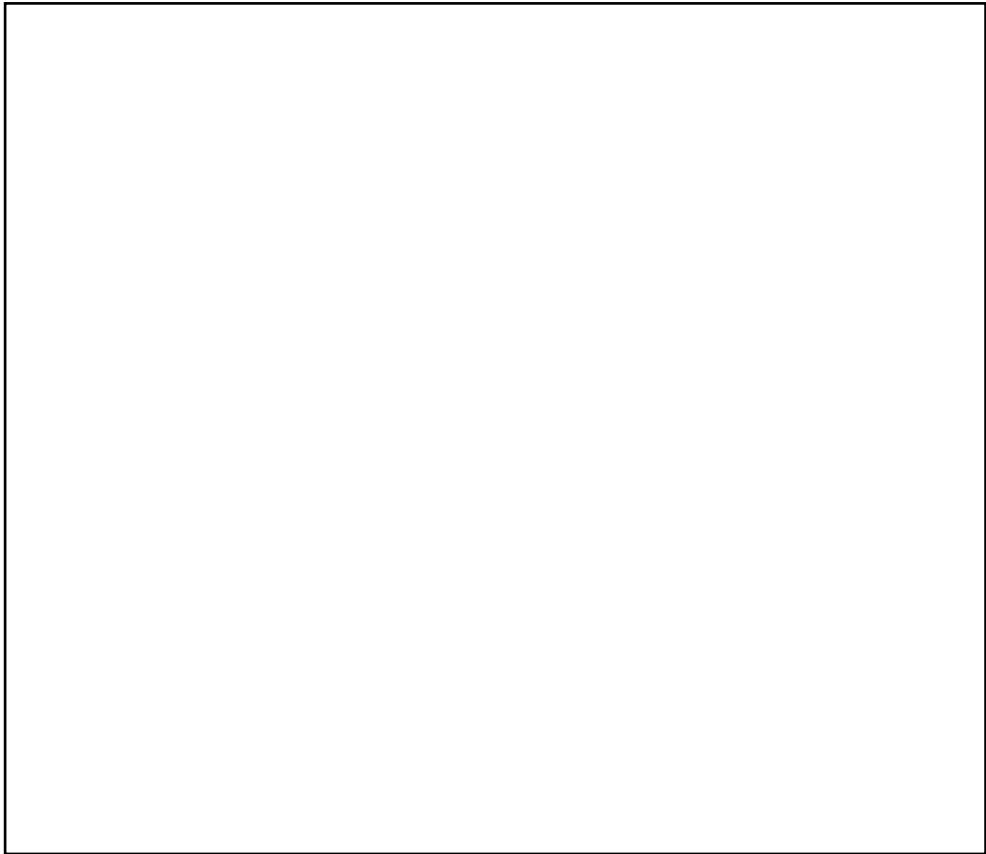
QUESTION 4

(a) Study Fig. 6, a map which shows part of a river and its tributaries, along with Photograph B (Insert) which shows a waterfall.
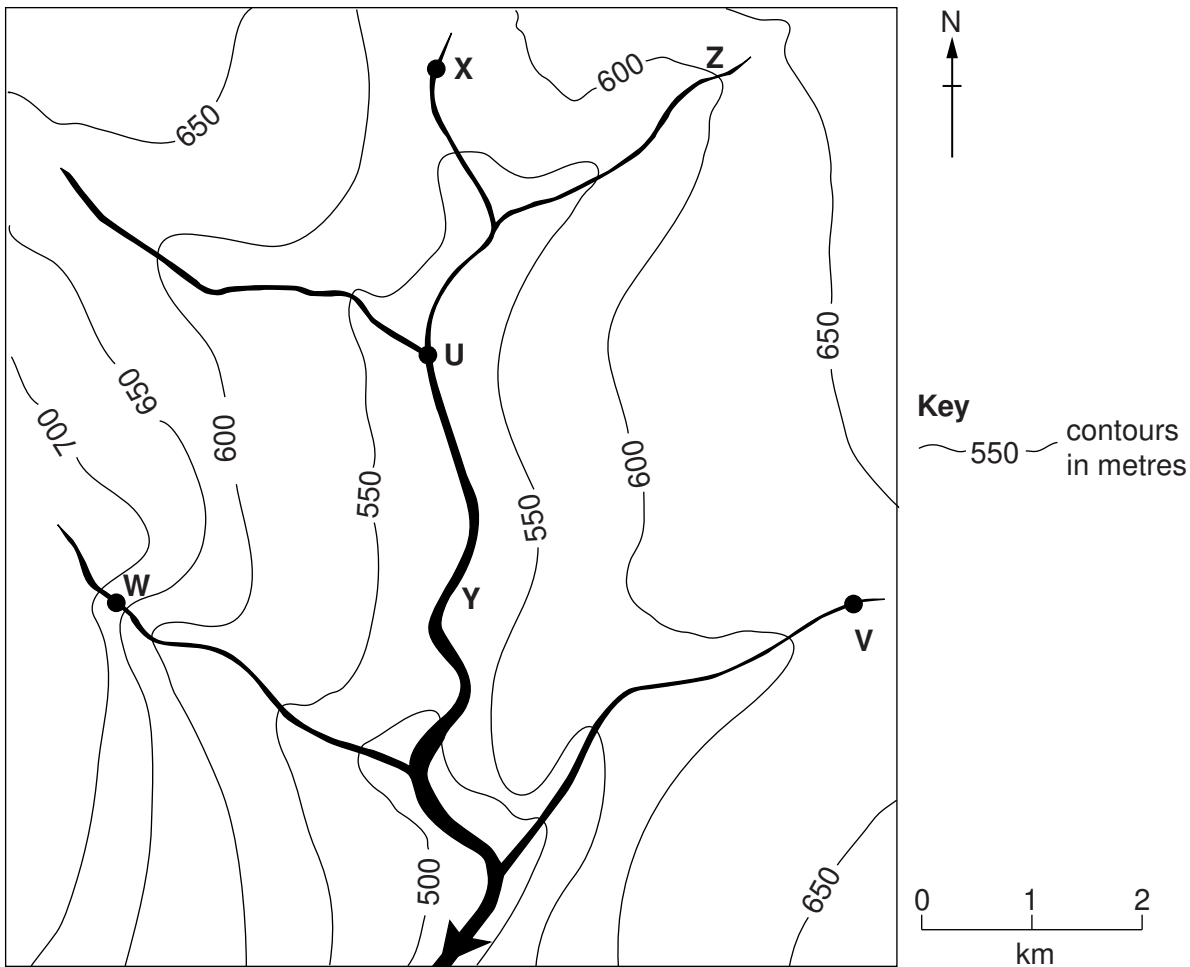
Fig. 6

(i) What feature is labelled **A** on Photograph B? Underline the correct answer from the list below.

hard rock layer   plunge pool   source

[1]

(ii) Which labelled point on Fig. 6, **U**, **V**, **W** or **X**, is the most likely position of the waterfall shown in Photograph B? Give a reason for your answer.

Position of waterfall ....

Reason ....

....

....[2]

(iii) Briefly explain how waterfalls, such as the one shown in Photograph B, are formed.

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....[3]

(iv) State **four** likely differences between the river and its valley at **Y** and at **Z** on Fig. 6.

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(b) Study Fig. 7, which shows the delta of the River Ganges.
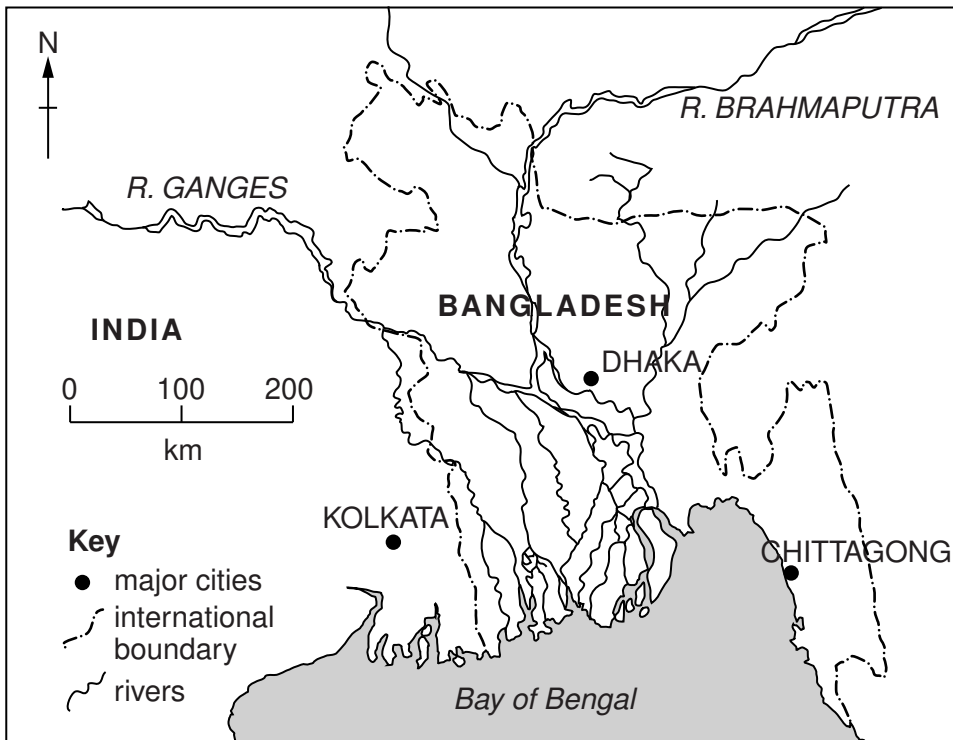
Fig. 7

(i) Using information from Fig. 7 **only**, describe **three** features of the Ganges Delta.

1 ....

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2 ....

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3 ....

....[3]

(ii) Explain how a delta is formed.

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(c) Describe the benefits and difficulties for people of living on a delta.
You should refer to a named delta.

Name of delta ....

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[Total: 25 marks]

END OF QUESTION 4

QUESTION 5

(a) Study Fig. 8, which shows information about changes in employment in selected industries in an MEDC in Europe between 1980 and 2010.
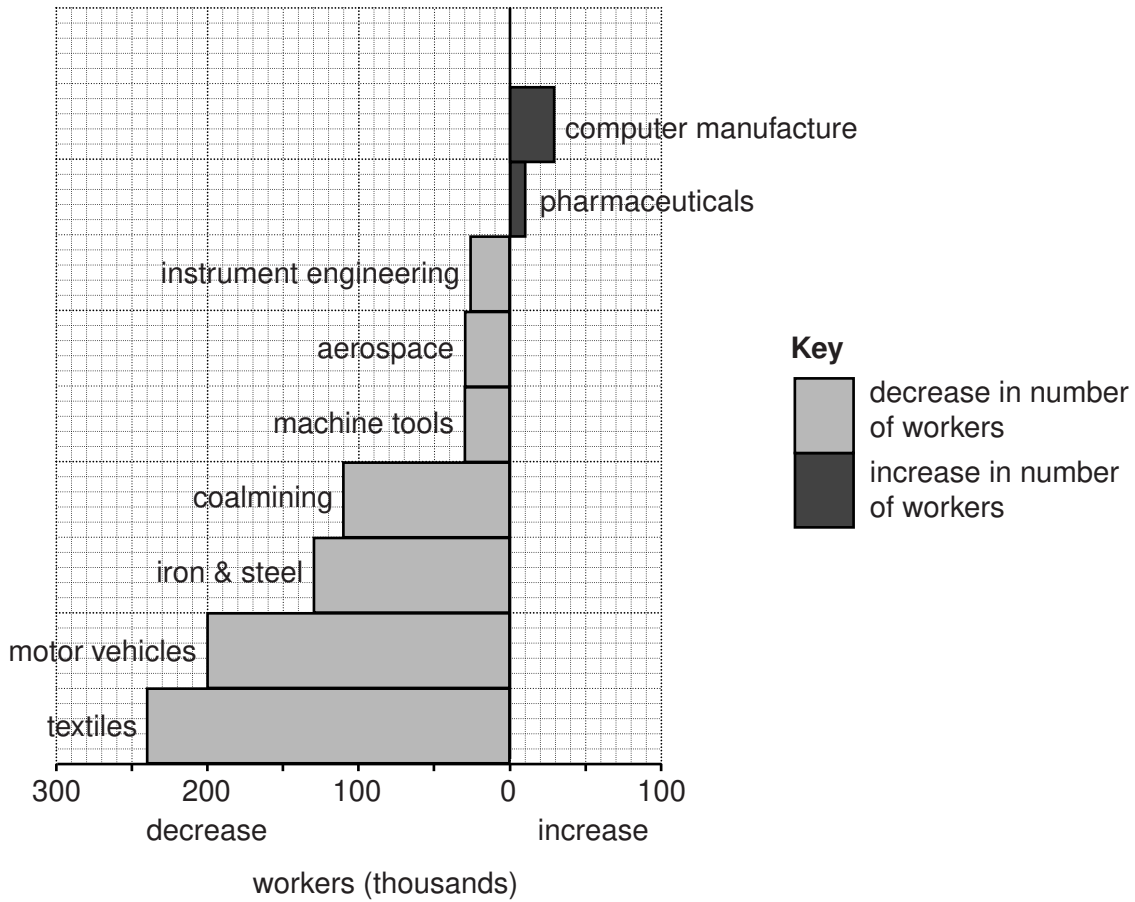
Fig. 8

(i) Identify **one** industry shown on Fig. 8 which is in the primary sector.

....[1]

(ii) Compare the changes in employment in computer manufacture and the motor vehicle industry between 1980 and 2010. Refer to figures in your answer.

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....[2]

(iii) Suggest **three** reasons for the decrease in employment in many manufacturing industries between 1980 and 2010.

1 ....

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....[3]

(iv) Suggest the likely impacts of the changes in employment shown by Fig. 8 on the people and economy of the country.

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....[4]

(b) Study Fig. 9, a simple flow diagram of industrial production.

INPUTS $\longrightarrow$ PROCESSES $\longrightarrow$ OUTPUTS
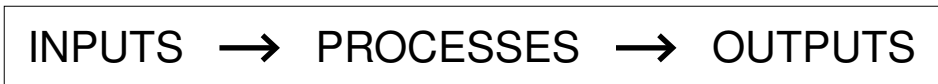
Fig. 9

(i) Define the terms inputs, processes and outputs of a factory.

Inputs ....

....

Processes ....

....

Outputs ....

....[3]

(ii) Name a type of manufacturing (or processing) industry which you have studied. (You must NOT choose a high technology industry).

To what extent did the raw materials used influence the location of the industry which you have named? Explain your answer.

Type of manufacturing (or processing) industry ....

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(c) For a named example of an area where high technology industry has been located, explain the factors which have attracted this type of industry.

Name of area ....…....…..........

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[Total: 25 marks]

END OF QUESTION 5

QUESTION 6

(a) Study Photographs C, D and E (Insert), which show different types of farming.

(i) Which one of the photographs, C, D or E, shows pastoral farming?

Photograph .... [1]

(ii) All three farms shown in Photographs C, D and E are commercial farms.
Explain why many farmers are commercial farmers.

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.... [2]

(iii) Describe the activities which are taking place on the farm shown in Photograph C.

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(iv) Suggest how the farming system shown in Photograph D may be influenced by physical factors.

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(b) Study Fig. 10, which shows information about changes in an agricultural area in Belgium between 1950 and 2000.

Village 1950

Village 2000

Key

■ houses for agricultural workers

▨ non agricultural workers houses

▯ new housing estate (under construction)

━━ minor country roads

≣ dual carriageway

▨ woodland

▦ fields

N

0   100
metres

Fig. 10

(i) Identify **three** changes which have taken place in the area shown by Fig. 10 between 1950 and 2000.

1 ....

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2 ....

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3 ....

....[3]

(ii) Suggest ways in which commercial farmers in the area shown in Fig. 10 may have been able to increase their output.

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(c) For a named area or country you have studied which suffers from food shortage, explain why there is a shortage of food.

Name of area or country ....

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[Total: 25 marks]

END OF QUESTION 6

Additional Page

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

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