

GENERAL CERTIFICATE OF SECONDARY EDUCATION
GEOGRAPHY A (SHORT COURSE)

1086/02

Paper 2 (Higher Tier)

Candidates answer on the Answer Booklet

OCR Supplied Materials:

- 8 page Answer Booklet
- Resource Booklet (1986/1086/01/02/RB – inserted)
- OS Map Extract (inserted)

Other Materials Required:

None

Monday 14 June 2010
Morning

Duration: 1 hour 30 minutes**INSTRUCTIONS TO CANDIDATES**

- Write your name clearly in capital letters, your Centre Number and Candidate Number in the spaces provided on the Answer Booklet.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **three** questions on the separate Answer Booklet provided. Choose **two** questions from Questions 1 to 4. Answer Question 5.
- Do **not** write in the bar codes.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **60**.
- You will be awarded up to 3 marks for the quality of written communication.
- The following initials are used throughout this paper:
 - LEDC – Less Economically Developed Country.
 - MEDC – More Economically Developed Country.
- This document consists of **8** pages. Any blank pages are indicated.

Answer **two** questions from Questions 1 to 4
and then answer Question 5.

UNIT 1 PEOPLE AND THE PHYSICAL WORLD

1 (a) Study Fig. 1a.

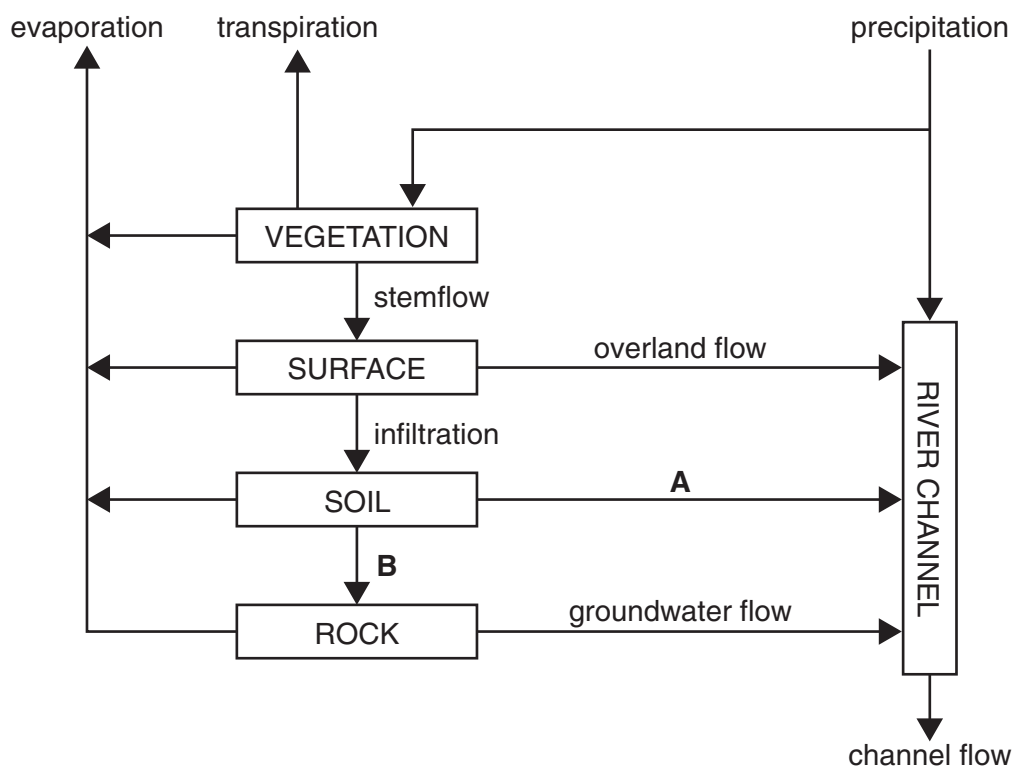


Fig. 1a Stores and flows in a drainage basin

Name **A** and **B** which are shown on Fig. 1a.

[2]

(b) Study Fig. 1b (opposite).

(i) Describe **two** effects of the reservoir on the discharge of the river at **X**.

[2]

(ii) Fig. 1b shows an area where the Forestry Commission is going to plant a large area of woodland.

Describe and explain the likely effects of this woodland on the discharge of the river at **Y**.

[4]

(c) Many areas of housing have been built in river valleys. Explain why this is likely to increase river flooding.

[4]

(d) With the aid of a labelled diagram or diagrams, explain how a waterfall is formed.

[7]

[Total: 19]

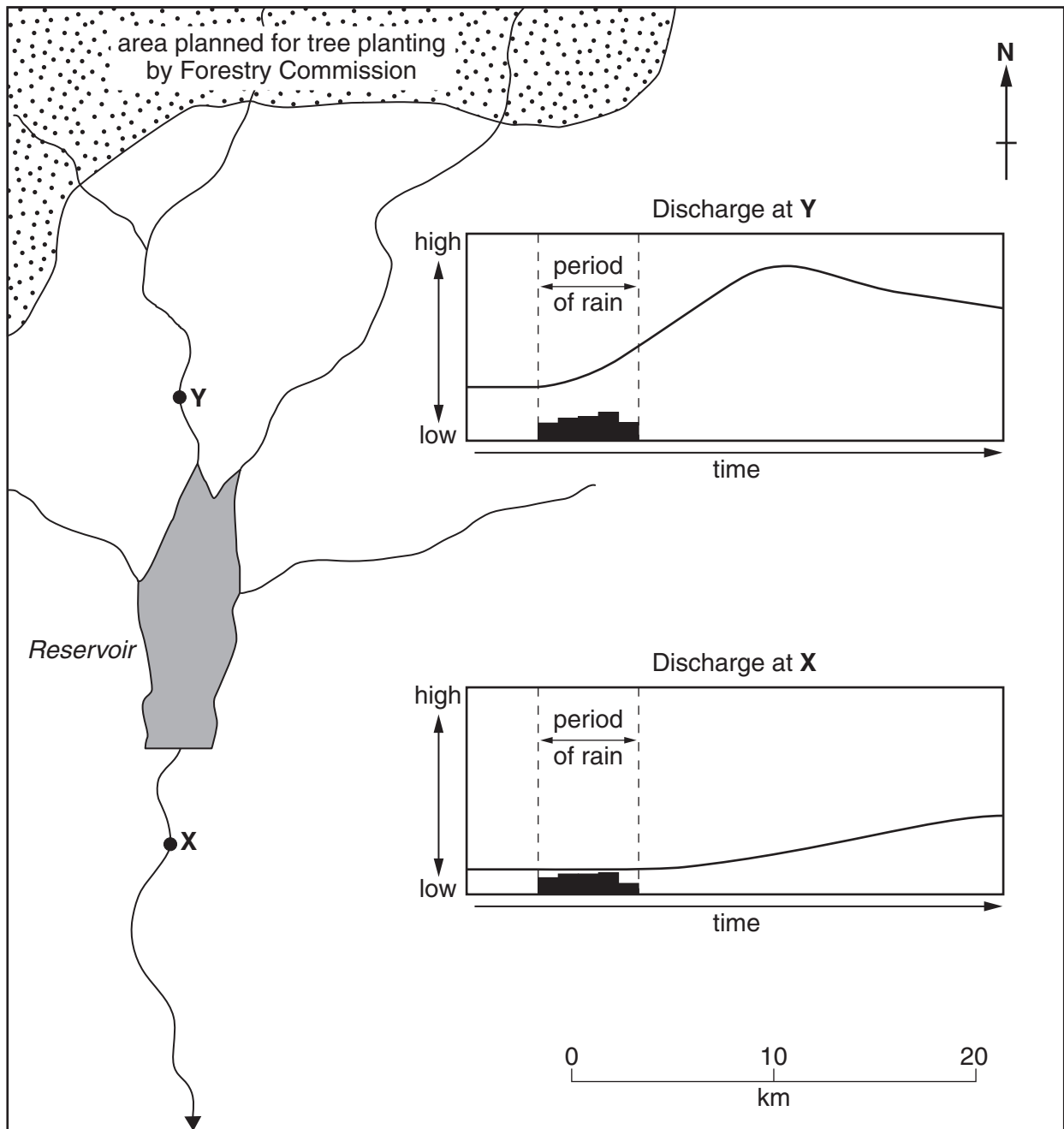


Fig. 1b Part of a drainage basin, with hydrographs for points X and Y

UNIT 2 PEOPLE AND PLACES TO LIVE

- 2 (a)** Study Map D in the Resource Booklet, along with Photographs E and F.

Map D shows part of the CBD and inner city of Leicester.

Photograph E is taken in square A9.

Photograph F is taken in square C9.

- (i)** Describe **two** differences between the residential areas shown in Photographs E and F. **[2]**
- (ii)** Explain why housing such as that shown in Photograph E is found in many inner city areas in the UK. **[4]**
- (iii)** Use evidence from Map D and Photograph F to explain the advantages and disadvantages of living in inner city areas such as this. **[6]**
- (b)** For a named town or city in an MEDC, describe what is being done to manage traffic and improve the movement of people and goods. **[7]**

[Total: 19]

UNIT 3 PEOPLE AND THEIR NEEDS

3 (a) Look at Photographs G and H in the Resource Booklet.

(i) Briefly describe **two** differences between the farms shown in the photographs. [2]

(ii) The farm shown in Photograph G is a subsistence farm.
The farm shown in Photograph H is a commercial farm.

How are these two farming systems different? [2]

(b) Study Diagram I in the Resource Booklet.

(i) Explain why the farming landscape has changed between 1960 and 2010. [4]

(ii) Many farmers have recently introduced farm diversification and developed new business activities on their land.
Describe **two** examples of diversification and explain why farmers have made these changes. [4]

(c) For a named area in an **LEDC**, describe a farming system and explain why it is taking place in the area. [7]

[Total: 19]

UNIT 4 PEOPLE AND THEIR ENVIRONMENT

4 (a) Study Fig. 4.

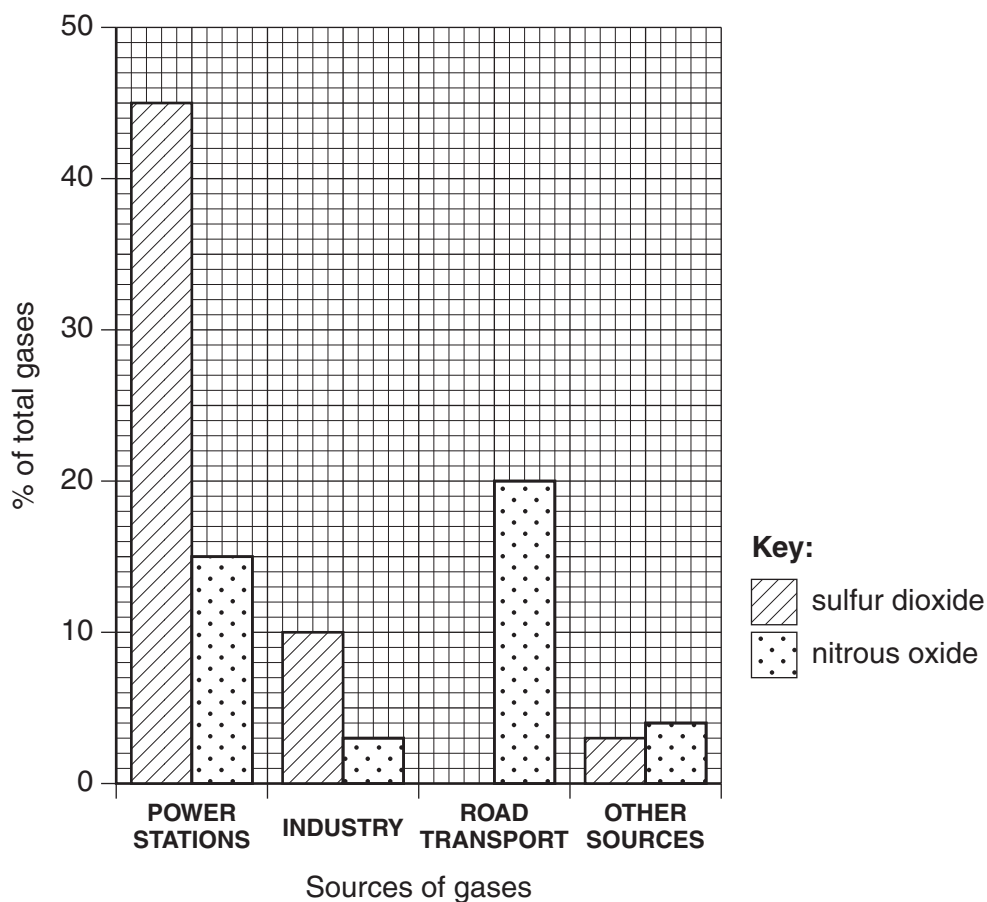


Fig. 4 Bar graph showing sources of gases which cause acid rain

- (i) What is the total percentage of gases causing acid rain which are produced by power stations? [1]
- (ii) Put the following sources of acid rain gases into rank order. Rank from highest to lowest.

Industry

Road transport

Power stations

[1]

- (iii) Explain how acid rain forms. [3]

- (b) (i) Describe effects of acid rain on the **natural** environment. [4]

- (ii) International cooperation is needed to solve the problem of acid rain. Explain why this is difficult to achieve. [3]

- (c) Another major environmental problem is **global warming**. Explain the **causes** of global warming. You should refer to named areas which you have studied. [7]

[Total: 19]

Question 5 is compulsory

5 Study the OS map extract (1:50 000) of part of Leicestershire.

- (a) Nottingham East Midlands Airport is in and around grid square 4526.
- (i) Describe the site and situation of Nottingham East Midlands Airport. [4]
 - (ii) Measure the length of the runway in kilometres between **Y** and **Z**. [1]
- (b) Find the village of Castle Donington (in and around grid square 4427) on the OS map extract.
- (i) Identify and give a 6 figure grid reference for **one** service in Castle Donington. [2]
 - (ii) Study Photograph K in the Resource Booklet and Fig. 5 below. The photograph shows a site where new housing is planned at Castle Donington. This is marked on the OS map extract.

Parish Council and local MP add their Objections to the New Housing Development in Castle Donington.

300 letters have been received by the Council so far from Castle Donington residents opposing plans to build 350 new houses off Park Lane.

Fig. 5 Extract from website 'AboutMyArea' (adapted)

Suggest reasons why many local residents are against plans to build the new houses in Castle Donington. [5]

- (c) Look again at the OS map extract and at Photograph L in the Resource Booklet.
- (i) The photograph was taken from 501236. In which compass direction was the camera pointing? [1]
 - (ii) Using **only** evidence from the OS map and Photograph L, describe the natural features of the River Soar and its valley north of grid line 23 and east of grid line 48. You should include evidence from the OS map in your answer. [6]

[Total: 19]

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