

GEOGRAPHY
Paper 1 Physical Geography

9730/01
25 August 2008
3 hours

Additional Materials: Answer Booklet/Paper
 Data Inserts
 World Outline Map

READ THESE INSTRUCTIONS FIRST

If you have been given an Answer Booklet, follow the instructions on the front cover of the Booklet.

Write your class and name on all the work you hand in.

Write in dark blue or black pen on both sides of the paper.

You may use a soft pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, highlighters, glue or correction fluid.

Section A

Answer **all** questions.

Section B

Answer **two** questions, each from a different topic.

Data Inserts contains all Photographs, Table and Figures referred to in the question paper.

Diagrams and sketch maps should be drawn whenever they serve to illustrate an answer.

The world outline map may be annotated and handed in with relevant answers.

You are reminded of the need for good English and clear presentation in your answers.

At the end of the examination, you are to hand in your work in **2 separate** bundles.

Hand in your answers to **question 1 separately**.

Fasten all your answers to the rest of the questions together.

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

Start each question on a fresh sheet of paper.

Physical Geography (H2)

Section A

Answer all questions in this section.
Questions 1, 2 and 3 carry 12 marks and Question 4 carries 14 marks.
You should allocate your time accordingly.

Lithospheric Processes, Hazards and Management

- 1 Photographs 1A and 1B show different landforms formed from weathering processes.
- (a) Briefly describe the landforms shown and identify them. [3]
- (b) Explain how weathering has resulted in the formation of these landforms. [5]
- (c) How are the results of weathering shown in these photographs different from those seen in other types of weathering processes? [4]

Atmospheric Processes, Hazards and Management

- 2 Table 2 shows aspects of microclimates seen in area X over time. Area X is located in a tropical area.
- (a) Describe the variables shown in the table. [3]
- (b) Explain clearly the reasons for the differences shown in the table. [6]
- (c) What other reasons could influence the climatic conditions of tropical areas? [3]

Hydrologic Processes, Hazards and Management

- 3 Figure 3 shows the storm hydrographs of 3 different basins – Basin A, B and C.
- (a) Describe the storm hydrograph variations shown in all 3 basins and identify one possible reason for each basin. [4]
- (b) Explain your reasons for the variations shown in all 3 basins. [4]
- (c) Briefly compare and explain the use of storm hydrographs to drainage density in the attempt to account for the characteristics of basins. [4]

Lithospheric and Atmospheric Processes, Hazards and Management

- 4 Figures 4A and 4B show global temperatures in the months of January and July.
- (a) Describe and compare the trends shown in the 2 figures. [3]
- (b) Explain how the trends help us to understand the possible climate types and weathering in the areas marked X, Y and Z. [7]
- (c) Describe briefly how could one conduct a study of temperatures and rainfall in an area. [4]

Section B

Answer two questions, each from a different topic. All questions carry 25 marks.

Lithospheric Processes, Hazards and Management

5 EITHER

(a) Compare and contrast igneous and sedimentary rocks and their responses to weathering.

[9]

(b) Discuss the role of man in mass movements.

[16m]

5 OR

(a) Compare and contrast the different types of plate boundaries.

[9]

(b) Discuss how the interactions at these boundaries could impact on man.

[16]

Atmospheric Processes, Hazards and Management

6 EITHER

(a) Describe and explain what is meant by the term 'Inter-Tropical Convergence Zone' (ITCZ) and its seasonal movement.

[9]

(b) Do you agree that the ITCZ has a major role in the creation of climatic zones of tropical Asia and Africa?

[16]

6 OR

(a) Describe and explain the term 'enhanced greenhouse effect'.

[9]

(b) Do you agree that man's activities are the major causes of atmospheric hazards in recent times?

[16]

Hydrologic Processes, Hazards and Management

7 EITHER

(a) Explain how climate could influence the flows and storages of a basin. [9]

(b) Using examples, examine the management of floods and conflicts of interests in river basins. [16]

7 OR

(a) Describe and explain the different processes found in rivers. [9]

(b) To what extent do you agree that these processes account for the formation and resultant shapes of river channels? [16]

CATHOLIC JUNIOR COLLEGE
In preparation for
General Certificate of Education Advanced Level
Higher 2

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DATA Inserts

READ THESE INSTRUCTIONS FIRST

This insert contains all the Photographs, Table and Figures referred to in the question paper.

This document consists of 4 printed pages.

[Turn over]

Photographs 1A and 1B for question 1.



Photograph 1A *(taken from a plane)*

Source: <http://img263.imageshack.us/img263/5723>



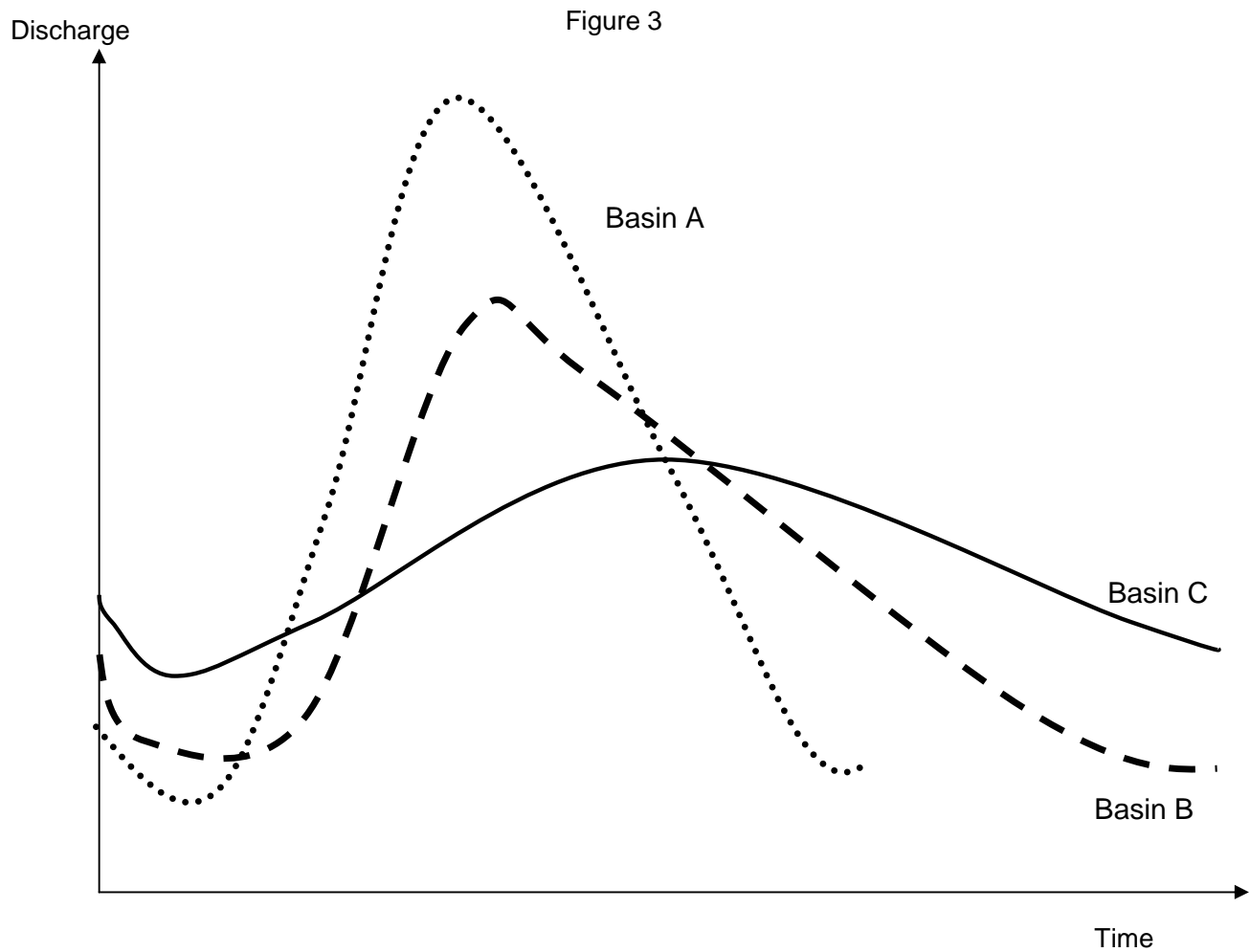
Photograph 1B

Source: <http://www.attractionsnorthwales.co.uk/gallery/115.jpg>

Table 2 for question 2.

Table 2				
Area X	Temperature	Humidity	Wind speed at ground levels	Rainfall (annual)
1930	26°C	82%	Slow to Moderate	2000mm
1990	29°C	75%	Moderate to fast	2200mm

Figure 3 for question 3.



Figures 4A and 4B for question 4.

Figure 4A shows global temperature patterns in January.

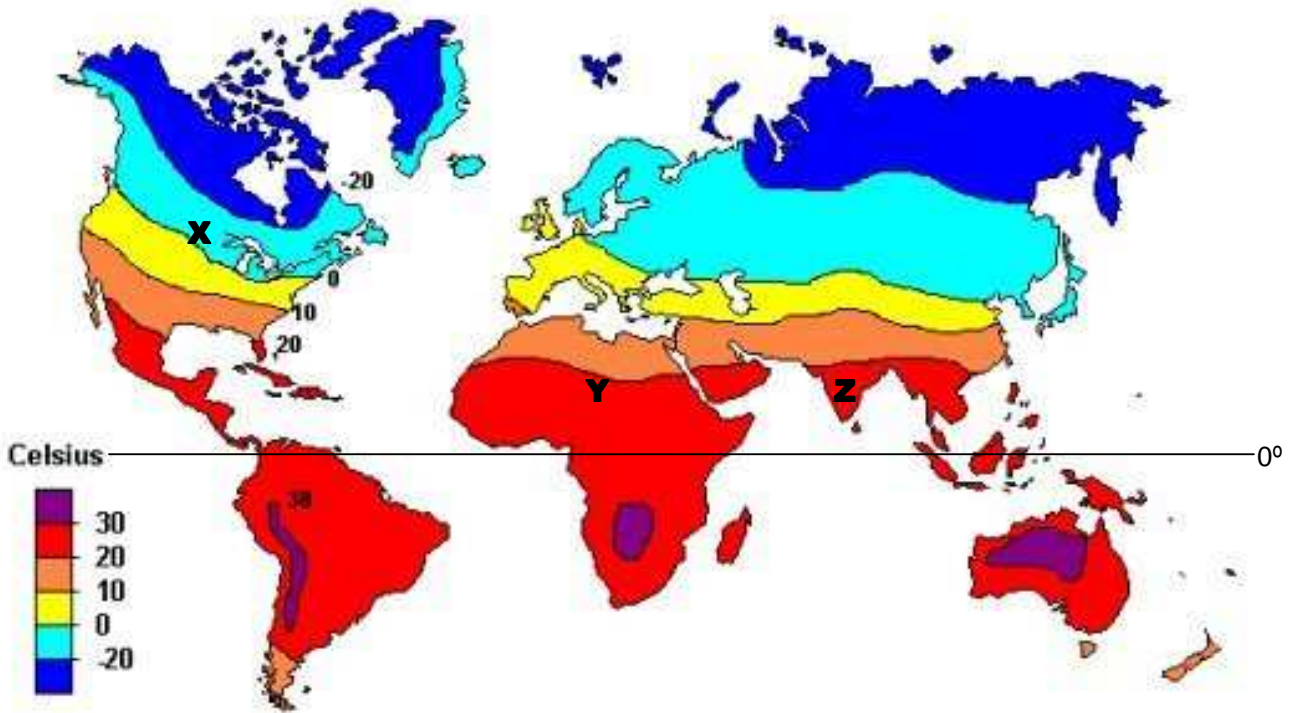


Figure 4B shows global temperature patterns in July

