



GEOGRAPHY

Higher and Standard Level

Monday 10 May 1999 (afternoon)

Paper 1

1 hour

A

Candidate name:	Candidate category & number:								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; height: 20px;"></td> <td style="width: 10%;"></td> </tr> </table>								
<p>This examination paper consists of 5 questions. The maximum mark for each question is indicated in the margin. The maximum mark for this paper is 30.</p> <p style="text-align: center;">INSTRUCTIONS TO CANDIDATES</p> <p>Write your candidate name and number in the boxes above.</p> <p>Do NOT open this examination paper until instructed to do so.</p> <p>Answer ALL questions in the spaces provided.</p>									

B

QUESTIONS ANSWERED	
ALL	
Number of extra sheets attached	

C

EXAMINER	TEAM LEADER
/30	/30
TOTAL	TOTAL
/30	/30

D

IBCA
/30
TOTAL
/30

EXAMINATION MATERIALS

Required:
None

Allowed:
A simple translating dictionary for candidates not working in their own language

1. The table below shows the percentages of world population living in rural and urban areas (in both economically more developed regions and economically less developed regions), for the years 1925, 1950, 1975 and 2000.

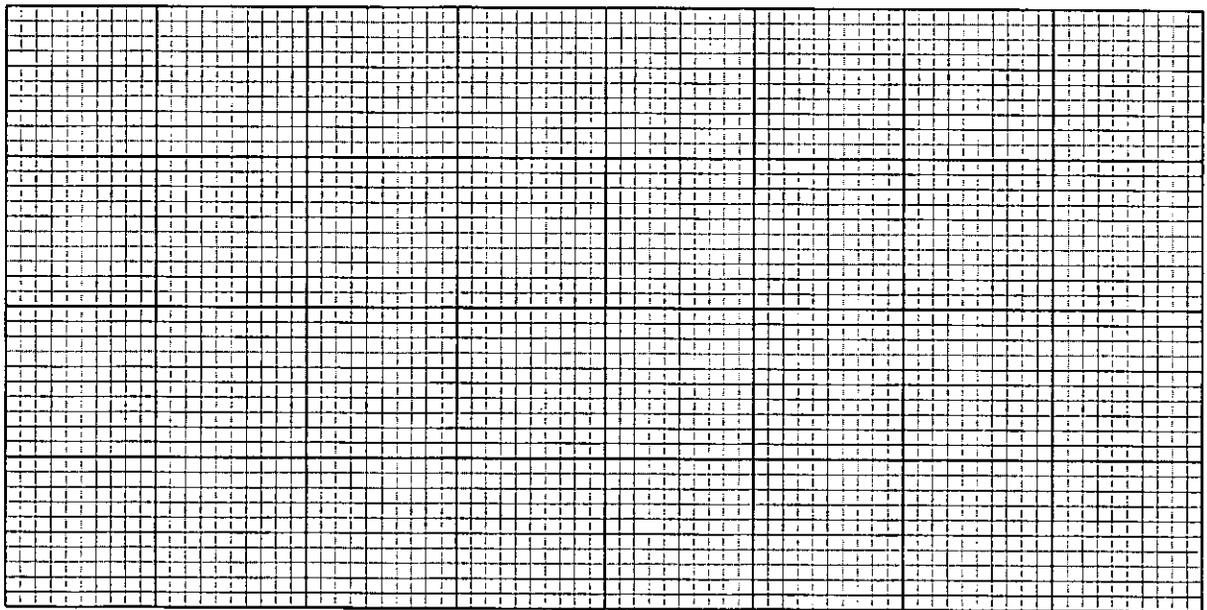
**World Population
Rural – Urban (Percentages)
1925–2000**

	1925	1950	1975	2000 (projected)
Urban %	20	29	39	48
Rural %	80	71	61	52

(Source: *Goode's World Atlas*, 19th ed., Rand McNally, 1990)

- (a) Using the data in the table, construct a bar graph on the graph paper below to show the percentages of rural and urban population in the world, for the years 1925, 1950, 1975 and 2000.

[2 marks]



(Question 1 continued)

(b) Rapid urbanisation has occurred twice in time and space; once in the 19th century and once in the mid 20th century.

(i) Name the regions of the world where it occurred in the *[2 marks]*

19th century

mid 20th century

(ii) Explain why it occurred in those regions at the times shown. *[2 marks]*

19th century

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mid 20th century

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2. West Africa at present has the world's highest rate of natural increase in population. It is the world's second poorest region in terms of Gross National Product. The Sahelian portion of West Africa is at high risk of desertification.

Population Data 1996		
	West Africa	World
Natural Increase (%)	3.1	1.5
Doubling Time (years)	23	46
Infant Mortality Rate (per 1000 live births)	92	62
Life Expectancy (years)	53	66
Per Capita GNP (US\$)	330	4740

Adapted from Fellman, Getis and Getis
Human Geography: Landscapes of Human Activities,
5th ed Brown and Benchmark, 1997

Human Causes of Desertification as percentage of desertified land in the Sahel and West Africa	
	%
Overcultivation	25
Overstocking	65
Fuelwood collection	10
	<hr/> 100

Adapted from David Waugh and Elizabeth Clutton,
*Geography: An Integrated Approach. Statistical
Supplement*. Nelson, 1998

- (a) Define the term **desertification**.

[1 mark]

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- (b) Explain how changes in **population size and distribution** in West Africa might be linked to desertification.

[3 marks]

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(Question 2 continued)

(c) Describe briefly some of the consequences of desertification for

(i) the environment

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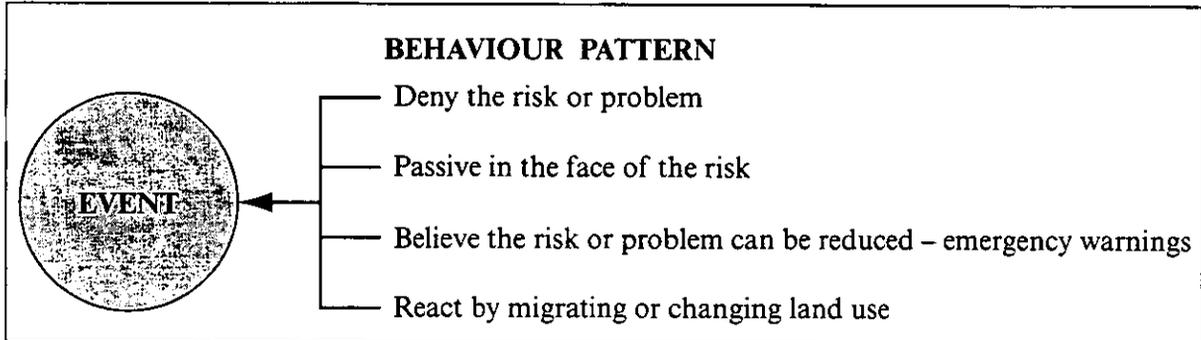
(ii) the activities or way of life of the inhabitants.

[2 marks]

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- 3. The diagram below shows four patterns of human response to the hazards of floods, landslides, drought, fire, cyclones, volcanoes, and earthquakes.

Patterns of Behaviour and Attitude in Hazardous Places



Adapted from Ian Burton, Robert W. Kates, and Gilbert F. White.
The Environment as Hazard. 2nd edition. Guilford Press, 1993

- (a) Select **one** of the above hazards and name a date and place in which it occurred. [1 mark]

HazardPlaceDate

- (b) Using the place and hazard which you have chosen as a case study, select **one** of the four groups of behaviour to describe how local inhabitants responded to the hazard. [3 marks]

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- (c) In which other ways might the inhabitants have responded **appropriately** to the hazard? [2 marks]

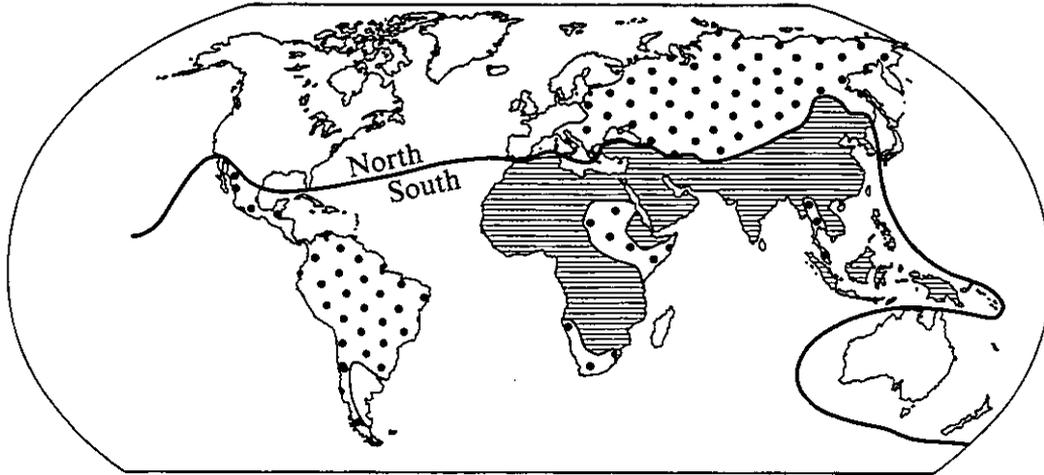
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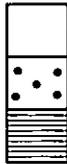
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4. The map below shows a line, sometimes known as the Brandt Line, separating the economically more developed countries (mainly in the north) from economically less developed ones (mainly in the south).



Animal Protein in Diet

In excess of 55%



55-25%

Less than 25%

Animal Protein as Percentage of Diet

Source: *Goode's World Atlas*. 19th ed.

- (a) Referring to information shown in the map, describe differences in people's food consumption north and south of the line marked on the map.

[2 marks]

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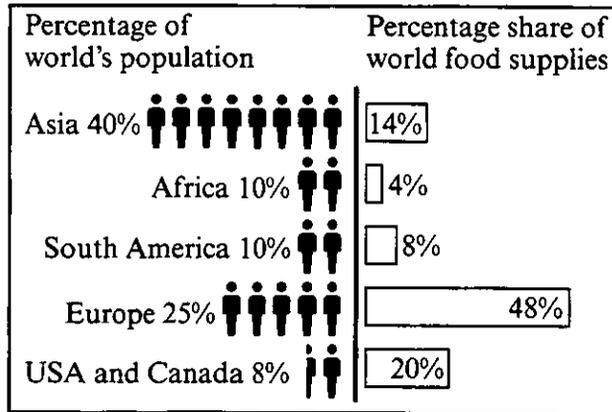
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(This question is continued on the next page)

(Question 4 continued)

Percentage of Population and Food Supplies

Selected Regions of the world



Source: Adapted from *World Development Issues*,
Development Education Project, Manchester

- (b) Using data from the map and diagram above, describe the **relationship** between population, food consumption, and the percentage of animal protein in the diet.

[4 marks]

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