

Surname					Other Names				
Centre Number					Candidate Number				
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For Examiner's Use

General Certificate of Education
Advanced Level Examination
Specimen Paper



GEOGRAPHY

GEOG1

Unit 1 Physical and Human Geography

<p>You will need no other materials. You may use a calculator.</p>

Time allowed: 2 hours

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer the questions in the spaces provided.
- Answer Question 1 and **one** other from **Section A** and Question 5 and **one** other from **Section B**.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The maximum mark for this paper is 120
- Each question is worth 30 marks.
- The marks for questions are shown in brackets.
- You are expected to use a calculator where appropriate.
- You will be marked on your ability to use an appropriate form and style of writing, to organise relevant information clearly and coherently, and to use specialist vocabulary where appropriate. The legibility of your handwriting and accuracy of your spelling, punctuation and grammar will also be considered.

Advice

- Where appropriate, sketch maps and diagrams should be used to illustrate answers and reference made to examples and case studies.
- You are advised to spend about 60 minutes on Section A and about 60 minutes on Section B.

For Examiner's Use			
Question	Mark	Question	Mark
1		5	
2		6	
3		7	
4		8	
Total (Column 1)		→	
Total (Column 2)		→	
TOTAL			
Examiner's Initials			

SECTION A

Answer **Question 1** and **one** other question from this section.

1 RIVERS, FLOODS AND MANAGEMENT

Total for this question: 30 marks

- (a) **Figure 1** shows part of the course of the Yellowstone River, Montana, USA.

Figure 1



(i) Describe the channel characteristics shown in **Figure 1**.

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(4 marks)

(ii) Outline physical factors that might affect the discharge of rivers such as that in **Figure 1**.

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(4 marks)

Question 1 continues on the next page

- (b) **Figures 2a** and **2b** provide data on channel shape and show cross-sections of Golden Clough in the Peak District and the river into which it flows, the River Noe.

Figure 2a: Golden Clough

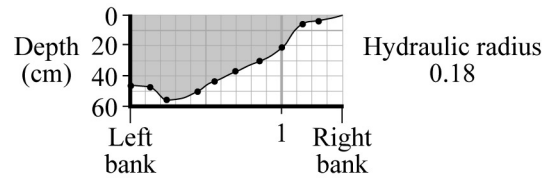
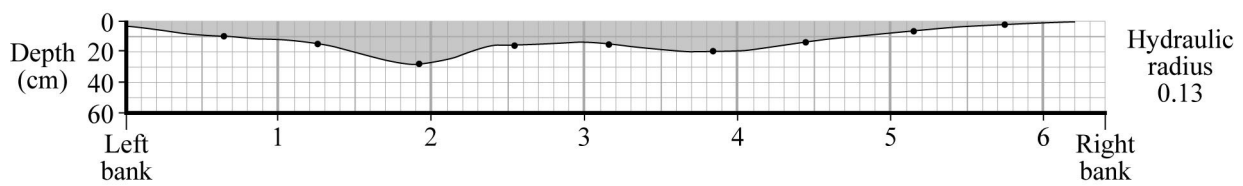


Figure 2b: River Noe



Contrast the channel shapes and comment on the relative efficiency of the two river cross sections.

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(7 marks)

Question 1 continues on the next page

(c) Describe and explain the development of meanders.

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(15 marks)

Turn over for the next question

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2 COLD ENVIRONMENTS

Total for this question: 30 marks

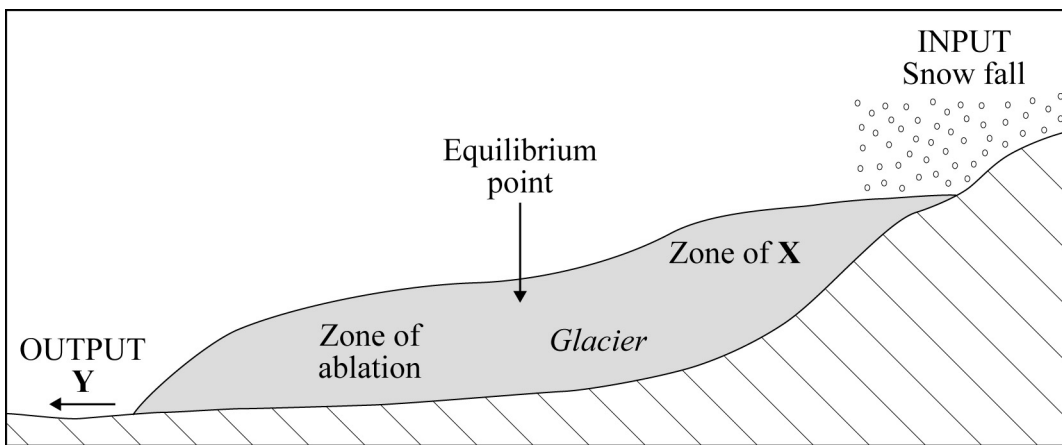
(a) **Figure 3** shows a model of a valley glacier system.

(i) Label the features **X** and **Y** found on **Figure 3**.

X

Y

Figure 3



(2 marks)

(ii) Outline how a glacier mass balance might change over time.

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(3 marks)

(b) (i) Distinguish between warm and cold-based glaciers.

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(4 marks)

(ii) Explain the formation of patterned ground in periglacial environments.

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(6 marks)

Question 2 continues on the next page

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(15 marks)

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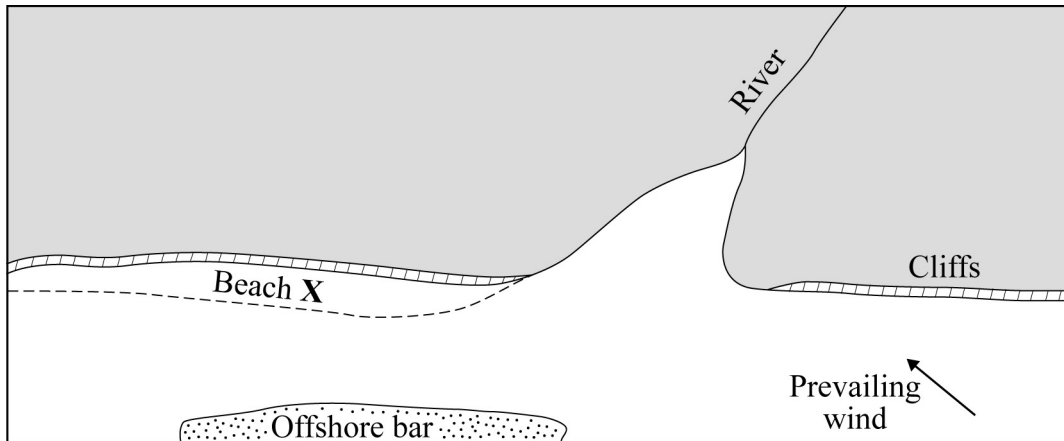
Turn over for the next question

3 COASTAL ENVIRONMENTS

Total for this question: 30 marks

(a) **Figure 4** shows part of a coastal system.

Figure 4



(i) Identify **two** sources of sediment at **X**.

Source 1

Source 2

(2 marks)

(ii) Outline the role of sub-aerial weathering in shaping the coast.

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(3 marks)

(b) What are the differences between constructive and destructive waves?

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(4 marks)

(c) Explain the formation of landforms typical of coastlines of emergence.

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(6 marks)

Question 3 continues on the next page

- (d) With reference to **one or more** case study of coastal management, discuss whether the benefits outweigh the costs.

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Turn over the next question

4 HOT DESERT ENVIRONMENTS AND THEIR MARGINS

Total for this question: 30 marks

(a) Distinguish between arid and semi arid environments.

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(2 marks)

(b) Outline how high pressure accounts for low levels of precipitation.

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(3 marks)

(c) **Figure 5** shows a typical landscape in the arid area of Death Valley, California.

Figure 5



(i) Describe the landforms shown in **Figure 5**.

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(4 marks)

Question 4 continues on the next page

(ii) Explain the role of the wind in the formation of landscapes such as that shown in **Figure 5**.

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(6 marks)

(d) Assess the role of people in causing desertification in the Sahel.

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SECTION B

Answer **Question 5** and **one** other question from this section.

5 GLOBAL POPULATION CHANGE

Total for this question: 30 marks

Study **Figure 6** which shows a variety of population indicators for six countries in 2005.

Figure 6

Country	Birth Rate per thousand	Death Rate per thousand	Infant Mortality Rate per thousand	Life Expectancy years
Sierra L	47	24	165	40
Malawi	50	19	100	45
Botswana	25	28	57	35
Iran	18	6	32	70
China	12	6	27	72
UK	12	10	5.2	78

(a) Define:

(i) infant mortality rate

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(2 marks)

(ii) life expectancy.

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(2 marks)

- (b) (i) Suggest reasons for the variation in the rates of population change shown in **Figure 6**.

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Question 5 continues on the next page

- (ii) Outline some of the issues for economic development linked with a population structure with a very high proportion of people over 65 years old.

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- (c) With reference to a named country, evaluate attempts to manage population change.

Name of country

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6 FOOD SUPPLY ISSUES

Total for this question: 30 marks

- (a) Compare the main characteristics of capital intensive farming and labour intensive farming.

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(4 marks)

- (b) Explain how the development of capital intensive farming of cash crops can cause food shortages in some parts of developed countries.

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(c) With reference to **one or more** examples, explain the benefits of using appropriate technology on farms in less developed countries.

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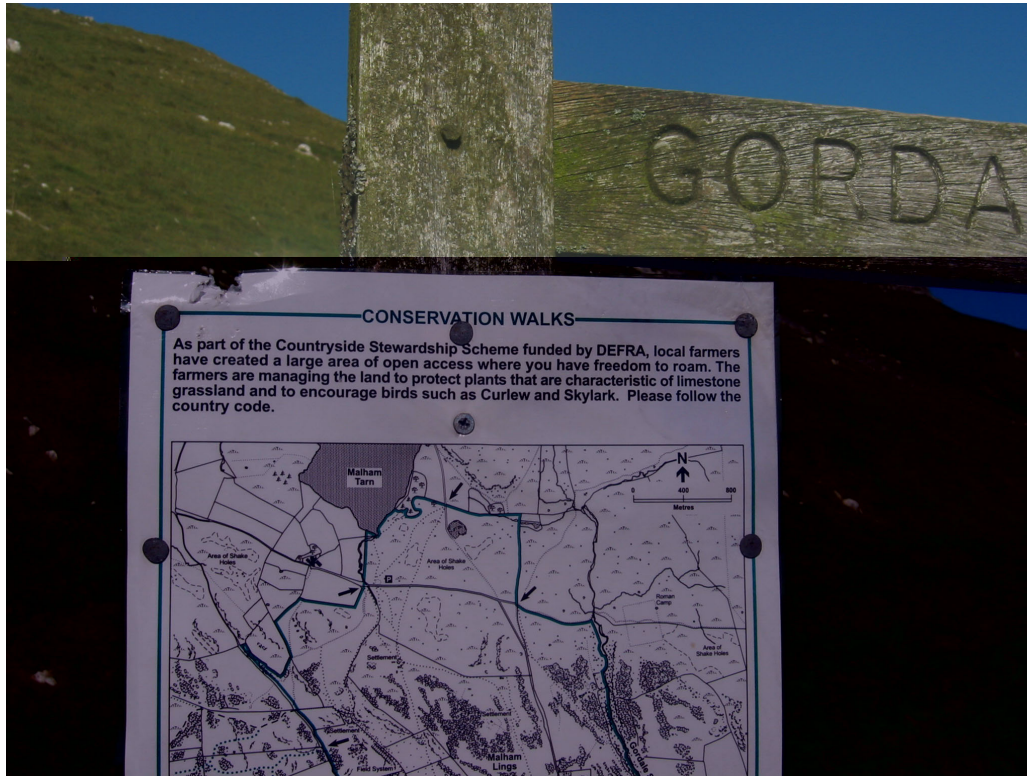
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(6 marks)

- (d) Study the photograph **Figure 7**, taken near Malham in the Yorkshire Dales National Park.

Figure 7



List the parties with an interest in the way the land around here is farmed and discuss how land use conflicts can be reduced by environmental stewardship schemes.

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(15 marks)

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7 ENERGY ISSUES

Total for this question: 30 marks

(a) Explain the meaning of:

(i) renewable energy

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(2 marks)

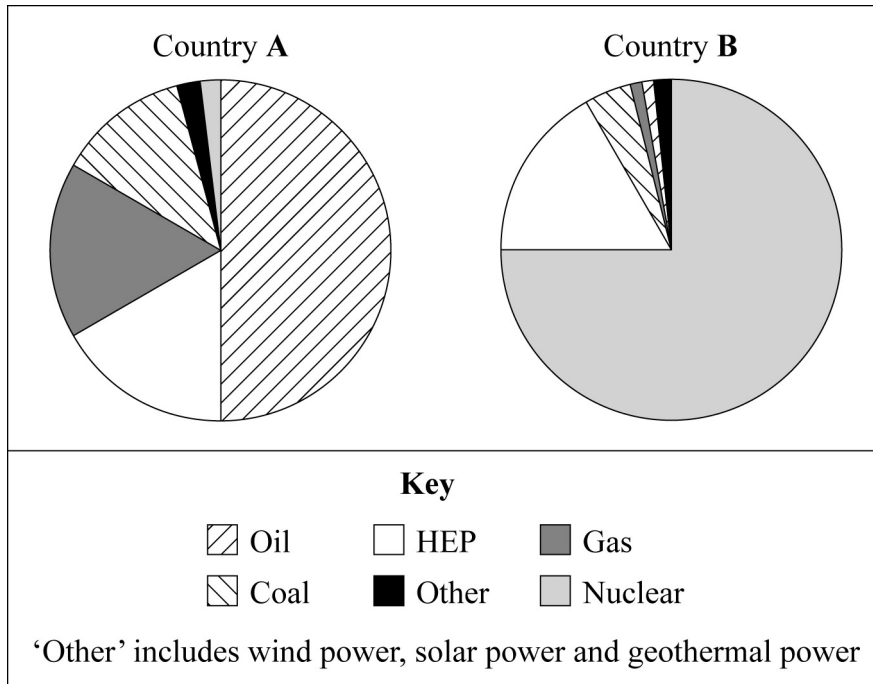
(ii) fossil fuels.

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(2 marks)

(b) Study **Figure 8**, energy production in two countries, 1994.

Figure 8



Compare the pattern of energy production in **Country A** with that in **Country B**, and comment on the contribution each is making to global warming.

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Question 7 continues on the next page

- (c) With reference to **one** or **more** schemes, explain the benefits of using appropriate technology to generate power in less developed countries.

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- (d) Some housing and transport systems in the United Kingdom are being designed to reduce energy use.
Discuss how the importance of such schemes is reducing the country's contribution to global warming.

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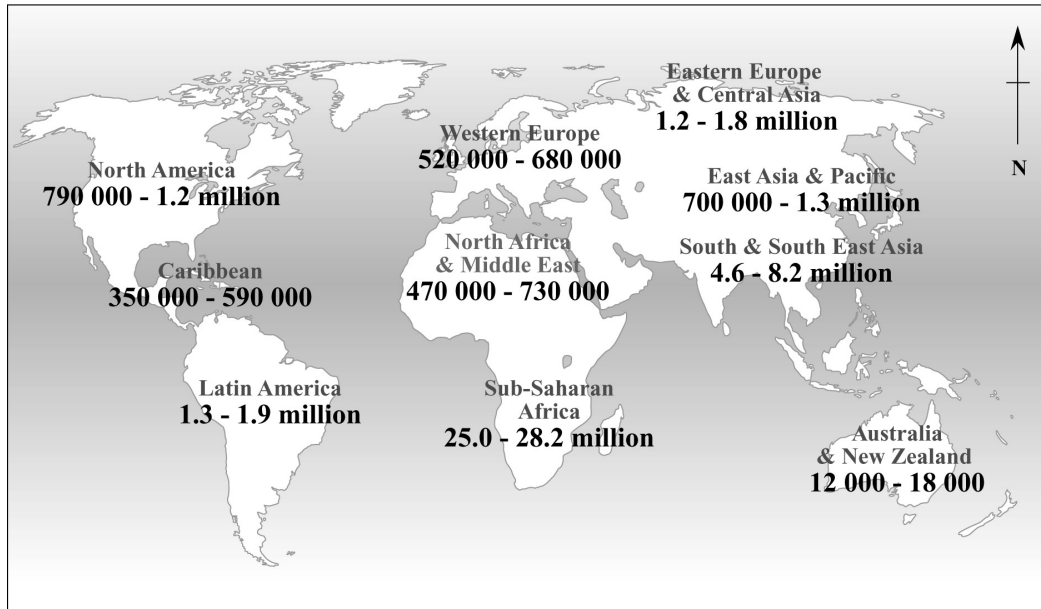
8 HEALTH ISSUES

Total for this question: 30 marks

- (a) Study the maps,
- Figures 9**
- and
- 10**
- , showing the global distribution of HIV/Aids.

Figure 9

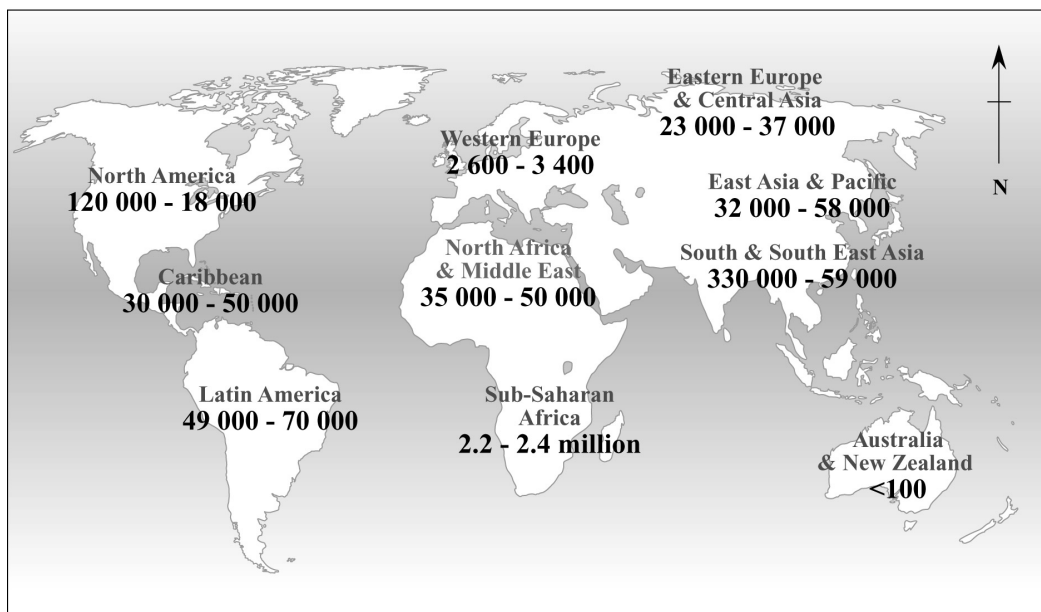
Adults and children estimated to be living with HIV/AIDS, end 2003



Total: 34 - 46 million

Figure 10

Estimated adult and child deaths due to HIV/AIDS during 2003



Total: 2.5 - 3.5 million

(i) Describe the distribution of people estimated to be living with HIV/Aids in 2003.

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(4 marks)

(ii) Explain why the world distribution of deaths due to HIV/Aids is very uneven.

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(5 marks)

Question 8 continues on the next page

(b) With reference to **one or more** schemes, explain the benefits of training local people as basic health workers to work in poor areas in less developed countries.

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(6 marks)

(c) Discuss how the United Kingdom’s changing population structure is likely to affect employment in the health and care services over the next 25 years or so.

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(15 marks)

<u> </u> 30

END OF QUESTIONS

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Question 8 Figure 9 & 10: UNAIDS December 2003 Epidemic Update

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