Cambridge International AS & A Level

Cambridge International Examinations Cambridge International Advanced Subsidiary and Advanced Level

GEOGRAPHY

Paper 1 Core Geography

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No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

An answer booklet is provided inside this question paper. You should follow the instructions on the front cover of the answer booklet. If you need additional answer paper ask the invigilator for a continuation booklet.

An answer booklet is proof the answer booklet. I Section A Answer five questions. Section B Answer one question. Section C

Answer **one** question. **Section C** Answer **one** question. Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer. All the Figures and the Table referred to in the questions are contained in the Insert.

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

This document consists of 5 printed pages, 3 blank pages and 2 Inserts.



Section A

Answer five questions from this section. All questions carry 10 marks.

Hydrology and fluvial geomorphology

- 1 Fig. 1A shows drainage basin diagrams for two catchments with different drainage densities. Fig. 1B shows hydrographs for the different drainage densities.
 - (a) (i) State the drainage density for the drainage basin labelled A. [1]
 - (ii) Identify the hydrograph (C or D) that could describe the discharge for the drainage basin with drainage density B. [1]
 - (b) Using Fig. 1A and Fig. 1B, explain the impact of drainage density on the shape of the storm hydrograph. [2]
 - (c) Describe and explain how soils and vegetation might affect flows and stores within a drainage basin. [6]

Atmosphere and weather

- 2 Fig. 2 shows the three changes in atmospheric moisture.
 - (a) Name the processes in Fig. 2 labelled:
 - (i) J, [1]
 - (ii) K. [1]
 - (b) State and briefly describe the process occurring at L. [3]
 - (c) Using Fig. 2, describe and explain processes which contribute to the formation of precipitation.

[5]

Rocks and weathering

- **3** Fig. 3 shows features associated with processes of plate movement.
 - (a) Using Fig. 3, identify the features labelled:
 - (i) W, [1]
 - (ii) X. [1]
 - (b) Using Fig. 3, identify the processes labelled:
 - (i) Y, [1]
 - (ii) Z. [1]
 - (c) Explain the formation of mountain ranges and island arcs. [6]

Population/Migration/Settlement dynamics

- 4 Table 1 shows natural increase (%) and urban population (%) for selected countries in 2011.
 - (a) Describe the relationship between natural increase and urban population shown in Table 1.

[2]

- (b) Suggest two reasons for the relationship you described in (a). [3]
- (c) Explain the possible impacts on a **rural** area of a high rate of natural increase. [5]

Migration

5 Fig. 4 shows the destinations, by distance, of migrants from a city in an MEDC.

(a)	Describe the main features shown in Fig. 4.	[2]
(b)	Suggest two reasons for the features you described in (a).	[3]
(c)	Explain the factors that might limit the ability of people to migrate.	[5]

Settlement dynamics/Migration

- **6** Fig. 5 shows the percentage (%) of urban population and rural population with access to improved sanitation in selected countries in 2011.
 - (a) Describe the main features shown in Fig. 5. [2]
 - (b) Suggest two reasons for the features you described in (a). [3]
 - (c) Using examples, explain how differences in quantity and quality of services influence rural-urban migration. [5]

Section B: The Physical Core

Answer one question from this section. All questions carry 25 marks.

Hydrology and fluvial geomorphology

7	(a)	(i)	Define the hydrological terms throughflow and baseflow.	[4]
		(ii)	Briefly explain groundwater recharge.	[3]

- (b) With the aid of a diagram, describe the ways in which precipitation reaches a river channel. [8]
- (c) Using examples, explain the extent to which human activities may lead to low flows and reduced stores in a drainage basin system. [10]

Atmosphere and weather

8	(a)	(i)	Define the atmospheric terms convection and orographic uplift.	[4]
		(ii)	Briefly explain how heat is transferred by ocean currents.	[3]
	(b)	(b) With the aid of a diagram, explain the global pattern of wind.		
	(c)	Des	scribe global warming. To what extent might global warming bring about climate char	ıge?

[10]

Rocks and weathering

9	(a)	(i)	Define the terms <i>flows</i> and <i>slides</i> as they apply to mass movement on slopes.	[4]
		(ii)	Briefly describe how flows can affect the shape of slopes.	[3]
	(b)	Explain the influence of climate on the weathering of rocks.		
	(c)	Ass	sess the extent to which human activities can affect the stability of slopes.	[10]

Section C: The Human Core

Answer **one** question from this section. All questions carry 25 marks.

Population

10	(a)	(i)	Define the term fertility rate.	[3]	
		(ii)	Outline two factors that affect the levels of fertility in a population.	[4]	
	(b)	Exp	lain how economic development influences death rates.	[8]	
	(c)		what extent does increased life expectancy result in both benefits and problems DCs?	for [10]	
Migration/Settlement dynamics					
11	(a)	(i)	Give the meaning of the term intra-urban migration.	[2]	
		(ii)	Give two reasons for intra-urban migration.	[5]	
	(b)	Out	line the main reasons why migration may increase as a country develops.	[8]	
	(c)	То	what extent can governments influence migration?	[10]	
Set	Settlement dynamics				

12	(a)	(i)	Give the meaning of the term world city.	[3]
		(ii)	Outline two causes of the growth of world cities.	[4]
	(b)	Des	scribe the advantages and disadvantages for a country of urban growth.	[8]
	(c)	ʻUrk	panisation is very difficult to reduce in an LEDC.' How far do you agree?	[10]

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