

GEOGRAPHY

9696/12

Paper 1 Core Geography

October/November 2014

3 hours

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.

Section A

Answer **five** questions.

Section B

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 Photograph 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. 1 shows the plan form of a river channel.
- (a) Identify the features labelled:
- (i) **A**, [1]
 - (ii) **B**, [1]
 - (iii) **C**. [1]
- (b) Draw a sketch cross-section of the channel from **D** to **E**. [2]
- (c) Explain the processes responsible for the shape of the channel you have drawn in (b). [5]

Atmosphere and weather

- 2 Fig. 2 shows the trend in five year average global temperature between 1860 and 2010.
- (a) Describe the trend shown in Fig. 2. [4]
- (b) Suggest reasons for the trend described in (a). [6]

Rocks and weathering

- 3 Fig. 3 shows some features associated with plate tectonics.
- (a) Identify the features labelled:
- (i) **W**, [1]
 - (ii) **X**. [1]
- (b) Identify the process occurring at:
- (i) **Y**, [1]
 - (ii) **Z**. [1]
- (c) Explain how fold mountains are formed at tectonic plate margins. [6]

Population

- 4 Fig. 4 shows the global hunger index (GHI) for Africa in 2012.
- (a) (i) Name **one** country with a moderate GHI of 5.0 to 9.9. [1]
- (ii) Describe the distribution of countries where GHI is alarming (20.0 and over). [3]
- (b) Explain how technology can help reduce food shortages. [6]

Migration

- 5 Figs 5A and 5B show the age/sex pyramids for the United Arab Emirates (UAE) in 1950 and 2010.
- (a) (i) Using Figs 5A and 5B, compare the percentage of the population aged 10 years and below. [2]
- (ii) Using Fig. 5B, describe the differences between the age structure of males and females in 2010. [4]
- (b) Outline the impacts of the loss of male migrants on a source area. [4]

Settlement dynamics

- 6 Photograph A shows a settlement at the edge of a city in an LEDC.
- (a) Using evidence from Photograph A, suggest problems faced by people living in this settlement. [4]
- (b) Describe and explain the **positive** aspects of living in a shanty town or squatter settlement. [6]

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 *throughfall* and *percolation*. [4]
(ii) Describe how precipitation and infiltration can lead to overland flow. [3]
- (b) Explain how the porosity and permeability of rocks and soils can affect the flows of water in a drainage basin. [8]
- (c) Discuss the view that river floods cannot be prevented but their effects can be reduced. [10]

Atmosphere and weather

- 8 (a) (i) Define *dry adiabatic lapse rate* and *orographic uplift*. [4]
(ii) Briefly describe the conditions which lead to the formation of dew. [3]
- (b) With the aid of a diagram or diagrams, explain how latitude influences the global distribution of temperature and pressure. [8]
- (c) Describe and explain the extent to which the climate of a large urban area differs from that of the surrounding rural area. [10]

Rocks and weathering

- 9 (a) (i) Define the terms *chelation* and *hydrolysis*. [4]
(ii) Briefly describe the process of pressure release (dilatation). [3]
- (b) Explain how vegetation, gradient and aspect may affect the nature and intensity of weathering. [8]
- (c) To what extent is mass movement on slopes the result of human activities rather than natural processes? [10]

Section C: The Human Core

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

Population

10 Fig. 6 shows the demographic transition model.

- (a) (i) Describe the changes to the death rate shown on the model. [3]
 (ii) Outline **two** reasons for the changes you have described in (a)(i). [4]
- (b) Suggest why, **within** a country, the death rate may fall more rapidly in some areas than in others. [8]
- (c) Assess the challenges for countries at stage 5 of the demographic transition. [10]

Migration

- 11 (a) Suggest the factors that influence a person's decision whether or not to migrate. [7]
- (b) Explain why the scale of **rural-urban** migration is greater in LEDCs than in MEDCs. [8]
- (c) How far do you agree that the impacts of **urban-rural** migration on receiving areas are negative? [10]

Settlement dynamics

- 12 (a) (i) Explain why land values and rents are high in Central Business Districts (CBDs). [3]
 (ii) How do high land values and rents help explain the characteristics of Central Business Districts (CBDs)? [4]
- (b) Explain why migrants tend to live in distinct areas in urban settlements in MEDCs. [8]
- (c) With reference to **one** named city in an MEDC, assess the view that inner city problems are difficult to solve. [10]

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- Question 4 Fig. 4 © International Food Policy Research Institute; www.ifpri.org; 2012.
Question 5 Figs 5A and 5B © United Nations Department of Economics & Social Affairs; www.un.org/esa/population/unpop.htm.
Question 6 Photograph A © Ref: 19902090; FrankvandenBergh/iStock; *Slums*; www.iStockphoto.com.
Question 10 Fig. 6 © P Guinness & G Nagle; *IGCSE Geography*; Hodder Education; 2003.

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