



Cambridge International AS & A Level

GEOGRAPHY**9696/01**

Paper 1 Core Physical Geography

For examination from 2020

SPECIMEN PAPER

1 hour 30 minutes

You must answer on the enclosed answer booklet.

You will need: Answer booklet (enclosed)
Insert (enclosed)

INSTRUCTIONS

- Answer **four** questions in total:
Section A: answer **all** questions.
Section B: answer **one** question.
- Follow the instructions on the front cover of the answer booklet. If you need additional answer paper, ask the invigilator for a continuation booklet.
- Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

INFORMATION

- The total mark for this paper is 60.
- The number of marks for each question or part question is shown in brackets [].
- The insert contains all the resources referred to in the questions.

This document has 4 pages. Blank pages are indicated.

Section A

Answer **all** questions in this section. All questions carry 10 marks.

Hydrology and fluvial geomorphology

- 1 Fig. 1.1 is a photograph which shows a meandering river.
- (a) Draw a sketch map of the meander in Zone X in Fig. 1.1. Label the main features. [4]
- (b) Explain the formation of **one** feature you identified in (a). [3]
- (c) Using Fig. 1.1, suggest how the river might change course. [3]

Atmosphere and weather

- 2 Fig. 2.1 shows the temperature at midnight across an urban area.
- (a) Using Fig. 2.1, identify:
- (i) the location of the maximum temperature; [1]
- (ii) the value of the minimum temperature. [1]
- (b) With reference to evidence from Fig. 2.1, describe the relationship between land-use and temperature shown. [3]
- (c) Explain why night time temperatures vary across an urban area such as the one shown in Fig. 2.1. [5]

Rocks and weathering

- 3 Fig. 3.1 shows types of weathering, rainfall and temperature.
- (a) (i) Identify the main type of weathering occurring at **A**. [1]
- (ii) Identify the main type of weathering occurring at **B**. [1]
- (b) With reference to evidence from Fig. 3.1, describe the relationship between temperature and type of weathering. [4]
- (c) Explain the role of water in **one** weathering process. [4]

Section B

Answer **one** question from this section. All questions carry 30 marks.

Hydrology and fluvial geomorphology

- 4 (a) (i) Define the hydrological terms *overland flow* and *infiltration*. [4]
- (ii) Briefly describe the process of transpiration. [3]
- (b) Explain how rock type and soils can affect stores of water in a drainage basin. [8]
- (c) With the aid of examples, discuss the view that river floods cannot be prevented but their effects can be reduced. [15]

Atmosphere and weather

- 5 (a) (i) Briefly describe how some incoming solar radiation is prevented from reaching the earth's surface. [3]
- (ii) Briefly explain why some surfaces absorb more solar energy than others. [4]
- (b) Describe and explain how temperatures are influenced by distance from the sea. [8]
- (c) 'Global warming is caused as much by individual people as by large organisations.'
With the aid of examples, how far do you agree? [15]

Rocks and weathering

- 6 (a) (i) Define the tectonic terms *volcanic island arc* and *ocean trench*. [4]
- (ii) Briefly describe the process of sea floor spreading. [3]
- (b) Describe and explain the formation of fold mountains. [8]
- (c) With the aid of examples, assess the extent to which human activities can affect the stability of slopes. [15]

BLANK PAGE

Copyright Acknowledgements:

Question 1 © Andrew Stacey; <http://www.stacey.peak-media.co.uk/year7/7-7Rivers/7j-7meanders/341.jpg>.
Question 2 © http://www.sde.nus.edu.sg/common/images/research_highlightsB01b.jpg.

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

Cambridge Assessment International Education is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of the University of Cambridge Local Examinations Syndicate (UCLES), which itself is a department of the University of Cambridge.