



# Cambridge International AS & A Level

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## 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)

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## 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.

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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]

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*Copyright Acknowledgements:*

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Question 2                   © [http://www.sde.nus.edu.sg/common/images/research\\_highlightsB01b.jpg](http://www.sde.nus.edu.sg/common/images/research_highlightsB01b.jpg).

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