Cambridge International AS & A Level

GEOGRAPHY

Paper 1 Core Physical Geography

SPECIMEN PAPER

For examination from 2020

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]