



Cambridge International AS & A Level

GEOGRAPHY

9696/11

Paper 1 Core Physical Geography

October/November 2025

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. Any blank pages are indicated.

Section A

Answer **all** questions in this section. All questions are worth 10 marks.

Hydrology and fluvial geomorphology

- 1 Fig. 1.1 shows areas with water levels above the flood threshold in Nigeria, Africa, 7 September 2023. Fig. 1.2 is a map of Nigeria, Africa.
- (a) Describe the distribution of the areas above the flood threshold shown in Fig. 1.1. [4]
- (b) Suggest **two** ways Fig. 1.1 could be used to help manage the risks of river flooding. [2]
- (c) Explain **two** ways a river can be managed to reduce river flooding. [4]

Atmosphere and weather

- 2 Fig. 2.1 shows the albedos of different surfaces in an urban area.
- (a) Which surface has an albedo range of 5% shown in Fig. 2.1? [1]
- (b) Compare the albedos of the different surfaces shown in Fig. 2.1. [4]
- (c) Explain how the climate of an urban area is affected by human activity. [5]

Rocks and weathering

- 3 Fig. 3.1 is a photograph which shows mass movements on a coast in the south of England, UK.
- (a) State the type of mass movement labelled A in Fig. 3.1. [1]
- (b) Draw a sketch of the mass movements shown in Fig. 3.1. Label the main features. [4]
- (c) Suggest **two** reasons for mass movement A shown in Fig. 3.1. [5]

Section B

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

Hydrology and fluvial geomorphology

- 4** (a) (i) Define the hydrological terms 'interception' and 'throughfall'. [4]
- (ii) Briefly explain how springs are formed. [3]
- (b) Describe and explain the formation of deltas. [8]
- (c) 'Precipitation amount and intensity are the most important factors affecting the shape of a storm hydrograph.'
- With the aid of examples, how far do you agree with this statement? [15]

Atmosphere and weather

- 5** (a) (i) Define the atmospheric terms 'longwave radiation' and 'condensation'. [4]
- (ii) Briefly explain why an area might experience seasonal variations in atmospheric pressure. [3]
- (b) Describe and explain the evidence for the enhanced greenhouse effect and global warming. [8]
- (c) 'Radiation cooling is the main cause of fog.'
- With the aid of examples, how far do you agree with this statement? [15]

Rocks and weathering

- 6** (a) (i) Define the weathering terms 'salt crystal growth' and 'freeze–thaw'. [4]
- (ii) Briefly explain the formation of volcanic island arcs. [3]
- (b) Explain how the mass movement processes of heaves and flows occur on slopes. [8]
- (c) 'Some strategies to reduce mass movement on slopes are more effective than others.'
- With the aid of examples, how far do you agree with this statement? [15]

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