



Cambridge International AS & A Level

GEOGRAPHY

9696/32

Paper 3 Advanced Physical Geography Options

May/June 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:
Answer questions from **two** options.
For **each** option, follow the instructions inside on which questions to answer.
- 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.
- You should make reference to appropriate examples studied in the field or the classroom, even where such examples are not specifically requested by the question.

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.

Answer questions from **two** different options.

Tropical environments

If answering this option, answer Question 1 and **either** Question 2 **or** Question 3.

- 1 Fig. 1.1 is a photograph which shows seasonally humid tropical (savanna) vegetation in Africa.
 (a) Using evidence from Fig. 1.1, describe the main features of the savanna vegetation shown. [4]
 (b) Suggest reasons for **two** of the features you described in (a). [6]

- 2 Assess the extent to which humid tropical climates and seasonally humid tropical climates are influenced by the position of the intertropical convergence zone (ITCZ). [20]

- 3 'Cockpit karst and tower karst are formed in different conditions.'
 With the aid of examples, how far do you agree? [20]

Coastal environments

If answering this option, answer Question 4 and **either** Question 5 **or** Question 6.

- 4 Fig. 4.1 shows summer and winter beach profiles at a location in the USA.
 (a) Describe the similarities **and** differences between the summer and winter beach profiles shown in Fig. 4.1. [4]
 (b) Suggest reasons for the differences you described in (a). [6]

- 5 Assess the significance of different threats to coral reefs. [20]

- 6 Using a case study, evaluate the attempted solutions to the problems of sustainably managing a stretch, or stretches, of coastline. [20]

Hazardous environments

If answering this option, answer Question 7 and **either** Question 8 **or** Question 9.

- 7 Fig. 7.1 shows ash fallout from Mount Ruapehu, a volcano in New Zealand, 1995–6.
- (a) Describe the pattern of ash fallout shown in Fig. 7.1. [4]
- (b) Suggest **two** reasons for the pattern you described in (a). [6]
- 8 Assess the relative importance of prediction in reducing the impacts of large scale atmospheric disturbances. [20]
- 9 Assess the extent to which physical factors, rather than human factors, cause mass movements. [20]

Hot arid and semi-arid environments

If answering this option, answer Question 10 and **either** Question 11 **or** Question 12.

- 10 Fig. 10.1 is a climate graph for Naghbi, Saudi Arabia.
- (a) Describe the climate of Naghbi, Saudi Arabia, shown in Fig. 10.1. [4]
- (b) Explain the high diurnal temperature range of hot arid environments. [6]
- 11 'Physiological drought has a more significant impact than physical drought on the vegetation of hot arid and semi-arid environments.'
- How far do you agree? [20]
- 12 Assess the view that water action has the most important role in the formation of landforms of hot arid and semi-arid environments. [20]

BLANK PAGE

The boundaries and names shown, the designations used and the presentation of material on the maps contained in this question paper/insert do not imply official endorsement or acceptance by Cambridge Assessment International Education concerning the legal status of any country, territory, or area or any of its authorities, or of the delimitation of its frontiers or boundaries.

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.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge Assessment International Education Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at www.cambridgeinternational.org after the live examination series.

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.