

Cambridge International AS & A Level

GEOGRAPHY 9696/33

Paper 3 Advanced Physical Geography Options

May/June 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:

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.



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 vegetation in a seasonally humid tropical (savanna) ecosystem in Botswana, Africa.
 - (a) Describe four characteristics of the vegetation shown in Fig. 1.1. [4]
 - (b) Explain how the seasonally humid tropical climate has influenced the characteristics of the vegetation shown in Fig. 1.1. [6]
- 2 'The characteristics of the humid tropical climate are mainly caused by the intertropical convergence zone (ITCZ).'

How far do you agree with this statement?

[20]

3 Assess the relative importance of the factors influencing tropical soil formation.

[20]

Coastal environments

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

- **4** Fig. 4.1 shows beach volume changes along the coastline in Netarts Bay, Oregon, USA, 1997–99.
 - (a) Describe the pattern of beach volume changes shown in Fig. 4.1.

[4]

(b) Suggest two reasons for the pattern shown in Fig. 4.1.

- [6]
- 5 To what extent are erosional landforms influenced by sub-aerial processes in coastal environments? [20]
- 6 Discuss the extent to which pollution can be regarded as the greatest threat to coral reefs. [20]

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Hazardous environments

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

- **7** Fig. 7.1 shows the Typhoon Haiyan storm surge, San Pedro Bay, Philippines, 2013.
 - (a) Describe the variations in the height of the storm surge shown in Fig. 7.1.
 - (b) Suggest reasons for the variations you described in (a). [7]
- 8 'Soil liquefaction is the most significant hazard resulting from earthquakes.'

How far do you agree with this view?

[20]

[3]

9 Assess the effectiveness of different ways of managing hazards resulting from atmospheric disturbances. [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 Lajamanu, Northern Territory, Australia.
 - (a) Describe the climate of Lajamanu shown in Fig. 10.1.

[4]

(b) Suggest two reasons for the climate you described in (a).

[6]

- 11 Assess the influence of water action on the formation of landforms in hot arid and semi-arid environments. [20]
- Using a case study of either a hot arid environment or a semi-arid environment, evaluate solutions to the problems of sustainable management.
 [20]

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