

Cambridge International AS & A Level

GEOGRAPHY	,		9696/0
CENTRE NUMBER		CANDIDATE NUMBER	
CANDIDATE NAME			

Paper 1 Physical Geography

For examination from 2027

SPECIMEN PAPER

1 hour 30 minutes

You must answer on the question paper.

You will need: Insert (enclosed)

Calculator

INSTRUCTIONS

Answer four questions in total:

Section A: answer all questions.

Section B: answer one question.

- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen. Do **not** use correction fluid or tape.
- Do not write on any bar codes.
- If additional space is needed, you should use the lined pages at the end of this booklet; the question number or numbers must be clearly shown.
- Draw sketch maps and diagrams where needed in your answers.

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 12 pages.

Section A

Answer all questions in this section.

Hydrology, river processes and hazards

Fig	ure 1	.1 is a photograph which shows a river flooding.
(a)	Use	Figure 1.1 to:
	(i)	identify the landform labelled X.
		[1]
	(ii)	identify the landform shown between Y and Z.
		[1]
(b)	Des	scribe the features of the flooding shown in Figure 1.1.
		11

(c)	Suggest two factors that might cause a river to flood.
	factor 1
	factor 2
	[4]
	.,
(d)	Figure 1.2 shows a storm hydrograph.
	Identify feature A of the storm hydrograph shown in Figure 1.2.
	[1]
(e)	Describe how deforestation in the drainage basin area might change the storm hydrograph in Figure 1.2.
	[4]
	[Total:15]

Figure 2.1 shows incoming (shortwave) solar radiation. Figure 2.2 shows outgoing

Atmospheric processes and global climate change

(longwave) radiation.

2

(a)	State the total amount of outgoing (longwave) radiation shown in Figure 2.2. Show your working.
	[2]
(b)	Explain how either atmospheric conditions or surface conditions affect the amount of solar radiation absorbed and reflected shown in Figure 2.1.
	[4]

(c) Figure 2.3 shows global carbon dioxide concentration in the atmosphere and global

Use Figure 2.3 to compare the trends in carbon dioxide concentration in the atmosphere an temperature change from 1850 to 2000.
 [<i>a</i>
 xplain the role of greenhouse gases in global warming.
[£

Earth processes and mass movements

3	Figu	ure 3.1 shows two types of mass movement.	
	(a)	Identify the type of mass movement labelled A in Figure 3.1.	
			[1]
	(b)	Compare the features of the mass movements labelled A and B in Figure 3.1.	
			[4]
	(c)	Suggest how mass movement B shown in Figure 3.1 was caused.	

(d)	Figure 3.2 is a photograph which shows management strategies used on a slope to reduce mass movement.	се
	Identify the two management strategies shown in Figure 3.2.	
	strategy 1	
	strategy 2	 [2]
		,
(e)	Describe how one of the management strategies in Figure 3.2 increases the stability of the slope.	
		. [3]
	[Total	:15]

Section B

Answer **one** question from this section.

'Climate is the most important factor influencing transfers in a drainage basin system.'

Hydrology, river processes and hazards

	To what extent do you agree with this statement? Use examples to support your answer.	[15]
Atn	nospheric processes and global climate change	
5	To what extent are ocean currents the main energy transfer within the global energy budget? examples to support your answer.	Use [15]
Ear	th processes and mass movements	
6	Assess the extent to which subduction is involved in the formation of tectonic landforms. Use examples to support your answer.	[15]
	Indicate which question you have answered: Question 4, 5 or 6	

Additional page

If you use the following page to complete the answer to any question, the question number must be clearly shown.
Copyright acknowledgements

Question 1, Figure 1.1 © Ref: FY3R9R; A.P.S. (UK) / Alamy Stock Photo; www.alamy.com Question 3, Figure 3.2 © Ref: MNC3BE; Chris Cole / Alamy Stock Photo; www.alamy.com

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