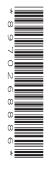


Tuesday 5 October 2021 – Morning

A Level Geography

H481/01 Physical systems

Time allowed: 1 hour 30 minutes



You must have:

- the OCR 12-page Answer Booklet
- the Resource Booklet (inside this document)

You can use:

- a ruler (cm/mm)
- a scientific or graphical calculator

INSTRUCTIONS

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the Answer Booklet. The question numbers must be clearly shown.
- Fill in the boxes on the front of the Answer Booklet.
- Choose **one** option in Section A and answer **all** the questions for that option. Answer **all** the questions in Section B.

INFORMATION

- The total mark for this paper is **66**.
- The marks for each question are shown in brackets [].
- Quality of extended response will be assessed in questions marked with an asterisk (*).
- This document has 8 pages.

ADVICE

- Try to answer every part of each question you choose.
- Read each question carefully before you start your answer.

Section A – Landscape Systems

Answer **all** questions from **one** option.

Option A – Coastal Landscapes

1	(a) Ex	plain how geology influences coastal landscape systems.	[8]
	(b) Study Fig. 1, which shows sources of global coastal sediment.		
	(i)	Using evidence from Fig. 1 , comment on the usefulness of this data presentate technique.	ation [3]
	(ii)	Using evidence from Fig. 1 , describe the pattern shown.	[3]
	 (iii) With reference to Fig. 1, explain one way in which this distribution may chan future. (c)* 'The changes caused by human activity in coastal landscapes are always negative.' Discuss. 		the [3]
			[16]

Option B – Glaciated Landscapes

2	(a)	Exp	lain how geology influences glaciated landscape systems.	[8]
	(b)	Stu	dy Fig. 2, which shows types of global glaciated and periglacial landscapes.	
		(i)	Using evidence from Fig. 2, comment on the usefulness of this data presentatechnique.	tion [3]
		(ii)	Using evidence from Fig. 2, describe the pattern shown.	[3]
	(iii)	With reference to Fig. 2 , explain one way in which this distribution may change in future.	the [3]
(c)* 'The changes caused by human activity in glaciated landscapes are Discuss.			e changes caused by human activity in glaciated landscapes are always negative.'	[16]

Option C – Dryland Landscapes

3	(a)	Explain how geology influences dryland landscape systems.	[8]
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(b) Study Fig. 3, which shows types of global dryland landscapes.

(i)	Using evidence from Fig. 3, comment on the usefulness of this data presentatechnique.	ation [3]
(ii)	Using evidence from Fig. 3, describe the pattern shown.	[3]
(iii)	With reference to Fig. 3, explain one way in which distribution may change in the fur	ture. [3]
. ,	e changes caused by human activity in dryland landscapes are always negative.' cuss.	[16]

Section B – Earth's Life Support Systems

Answer all questions.

- 4 (a) Study Fig. 4, which shows a satellite image of a phytoplankton bloom in the Bay of Biscay.
 - (i) Using evidence from Fig. 4, identify three limitations of this data presentation technique.

[3]

- (ii) With reference to Fig. 4, suggest two ways the phytoplankton bloom would influence the carbon cycle. [4]
- (b) Examine how water extraction influences flows and stores in the water cycle. [10]
- (c)* Assess the impact of long-term climate change on the water and carbon cycles. [16]

END OF QUESTION PAPER

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