OCR
Oxford Cambridge and RSA

Tuesday 5 October 2021 – Morning

A Level Geography

H481/01 Physical systems

Time allowed: 1 hour 30 minutes

8970268886

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.

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Section A – Landscape Systems

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

Option A – Coastal Landscapes

1 **(a)** Explain 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 presentation technique. **[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 change in the future. **[3]**

(c)* 'The changes caused by human activity in coastal landscapes are always negative.' Discuss. **[16]**

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Option B – Glaciated Landscapes

2 **(a)** Explain how geology influences glaciated landscape systems. **[8]**

(b) Study **Fig. 2**, which shows types of global glaciated and periglacial landscapes.

(i) Using evidence from **Fig. 2**, comment on the usefulness of this data presentation technique. **[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 the future. **[3]**

(c)* 'The changes caused by human activity in glaciated landscapes are always negative.' Discuss. **[16]**

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Option C – Dryland Landscapes

3 **(a)** Explain how geology influences dryland landscape systems. **[8]**

(b) Study **Fig. 3**, which shows types of global dryland landscapes.

(i) Using evidence from **Fig. 3**, comment on the usefulness of this data presentation technique. **[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 future. **[3]**

(c)* 'The changes caused by human activity in dryland landscapes are always negative.' Discuss. **[16]**

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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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