

OXFORD CAMBRIDGE AND RSA EXAMINATIONS

Tuesday 5 October 2021 – Morning

A Level Geography

H481/01 Physical systems

**Time allowed: 1 hour 30 minutes
plus your additional time allowance**

YOU MUST HAVE:

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

YOU CAN USE:

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

READ INSTRUCTIONS OVERLEAF



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 (*).

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) 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]**

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]**

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]**

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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