

**Modified Enlarged 24pt
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



Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact The OCR Copyright Team, The Triangle Building, Shaftesbury Road, Cambridge CB2 8EA.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.