



Oxford Cambridge and RSA

**Tuesday 06 October 2020 – 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) Explain the influence of climate change on raised beaches. [8]
- (b) Study **Fig. 1** in the Resource Booklet, which shows a GIS satellite image of Anacapa Island, California, USA.
- (i) Measure the distance from **A** to **B**. [1]
- (ii) Name landform **C**. [1]
- (iii) Explain **three** advantages of this data presentation technique. [3]
- (c) Study **Fig. 2** in the Resource Booklet, Eastbourne, Sussex, UK.
- Using **Fig. 2**, suggest how management strategy **D** could influence the coastal landscape. [4]
- (d)\* Using a case study, assess the extent to which landforms within a low energy coastal environment are inter-related. [16]

**Option B – Glaciated Landscapes**

- 2 (a) Explain the influence of climate change on kames. [8]
- (b) Study **Fig. 3** in the Resource Booklet, which shows a GIS satellite image of Rodman Glacier, Alaska, USA.
- (i) Measure the distance from **E** to **F**. [1]
- (ii) Name landform **G**. [1]
- (iii) Explain **three** advantages of this data presentation technique. [3]
- (c) Study **Fig. 4** in the Resource Booklet, Aklavik, Canada.
- Using **Fig. 4**, suggest how human activity **H** could influence the periglacial landscape. [4]
- (d)\* Using a case study, assess the extent to which landforms within a valley glacier system are inter-related. [16]

**Option C – Dryland Landscapes**

- 3 (a)** Explain the influence of climate change on pediments. **[8]**
- (b)** Study **Fig. 5** in the Resource Booklet, which shows a GIS satellite image of Death Valley, California, USA.
- (i)** Measure the distance from **I** to **J**. **[1]**
- (ii)** Name landform **K**. **[1]**
- (iii)** Explain **three** advantages of this data presentation technique. **[3]**
- (c)** Study **Fig. 6** in the Resource Booklet, Nevada, USA.
- Using **Fig. 6**, suggest how management strategy **L** could influence the dryland landscape. **[4]**
- (d)\*** Using a case study, assess the extent to which landforms within a low latitude desert are inter-related. **[16]**

**Section B – Earth’s Life Support Systems**

Answer **all** questions.

- 4 (a) Study **Fig. 7** in the Resource Booklet, a graph showing the relationship between altitude and carbon content in the soil of the equatorial forest in Ecuador and significance test data.
- (i) State the direction of the relationship shown on the graph. [1]
  - (ii) State whether the relationship is statistically significant and justify your answer. [3]
  - (iii) Suggest **one** reason for this relationship. [3]
- (b) Examine the extent to which an individual tree can influence the water and carbon cycles within a tropical rainforest. [10]
- (c)\* Assess the importance of water for humans. [16]

**END OF QUESTION PAPER**

**BLANK PAGE**

**BLANK PAGE**

---

# OCR

Oxford Cambridge and RSA

## 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](http://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.