

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS**

**Wednesday 20 May 2020 – Afternoon**

**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.**

**BLANK PAGE**

## **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**



### **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.**