

**Modified Enlarged 18pt**

**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.**

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## **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**



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