



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



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