



National
Qualifications
2019

X833/76/11

**Geography
Physical and Human
Environments**

TUESDAY, 28 MAY

INSTRUCTIONS TO CANDIDATES

Candidates should enter their surname, forename(s), date of birth, Scottish candidate number and the name and Level of the subject at the top of their first answer sheet.

Total marks — 100

SECTION 1 — PHYSICAL ENVIRONMENTS — 50 marks

Attempt ALL questions.

SECTION 2 — HUMAN ENVIRONMENTS — 50 marks

Attempt ALL questions.

Write your answers clearly on your answer sheet.

Questions marked with an asterisk differ in some respects from those in the printed paper.

Marks are shown in square brackets at the end of each question or part question.

An OW in the margin indicates a new question.

SECTION 1 — PHYSICAL ENVIRONMENTS — 50 marks

Attempt ALL questions

***Question 1**

Explain the formation of a corrie. [8 marks]

***Question 2**

Explain the formation of a sand spit. [8 marks]

***Question 3**

Study Diagram Q3A and Diagram Q3B.

- (a) **Describe** the pattern of ocean currents for **either** the Pacific Ocean **or** the Atlantic Ocean **and**
- (b) **explain** how ocean currents redistribute energy around the globe. [8 marks]

***Question 4**

Study Diagram Q4 and Table Q4.

For the River Leri on 8th and 9th of June

- (a) **describe** the changes in discharge level **and**
- (b) **suggest reasons** why these changes may have occurred. **[10 marks]**

Table Q4 Flood data for the River Leri, West Wales, 8th and 9th June 2012
In the table below date/time is followed by: rainfall (mm); discharge (cumecs).

Date/time	Rainfall (mm)	Discharge (cumecs)
8 June, 10:00	0	4
11:00	2	5
12:00	2	5
13:00	3	5
14:00	4	6
15:00	5	11
16:00	3	16
17:00	3	20
18:00	4	24
19:00	5	24
20:00	9	25
21:00	12	28
22:00	11	33
23:00	8	42
00:00	5	54
9 June, 01:00	3	75
02:00	0	82
03:00	0	67
04:00	0	37
05:00	0	20
06:00	0	9

***Question 5**

Waterfalls are commonly found in the upper course of rivers.

Explain the formation of a waterfall. **[8 marks]**

***Question 6**

Refer to Diagram Q6.

Explain the main conditions **and** processes involved in the formation of a podzol soil. **[8 marks]**

SECTION 2 — HUMAN ENVIRONMENTS — 50 marks

Attempt ALL questions

***Question 7**

Study Diagram Q7A and Diagram Q7B.

Japan's population structure is projected to change in the next 30 years.

Discuss the possible consequences of these changes. **[9 marks]**

Question 8

Discuss different methods used by countries to collect population data. **[6 marks]**

Question 9

Rural land degradation has many impacts on people and the environment.

Explain the impacts of rural land degradation on a semi-arid or rainforest area you have studied. **[8 marks]**

Question 10

Rural areas have a number of competing land uses which can create conflict.

Referring to a glaciated or coastal area you have studied, **discuss** the conflicts caused by the various land uses. **[12 marks]**

Question 11

'Newcastle City Council has announced plans to invest millions of pounds to improve housing in Newcastle by 2021'.

Explain the strategies used to manage housing problems in a **developed** world city you have studied. **[8 marks]**

***Question 12**

For a **developing** world city you have studied, **discuss** the management strategies used to reduce traffic issues. **[7 marks]**

[END OF QUESTION PAPER]