

A level Geography

H481/01 Physical systems

Question Set 9

Coastal Landscapes

1 (a) Explain the role of flows of energy in the formation of a tombolo. [8]

(b) Study **Table 1**, which shows inputs and outputs of sediment for a beach in Cornwall, UK, during 2017.

		Summer	Winter
Input (m ³)	Cliff erosion	43	100
	Fluvial deposition	50	20
	Beach nourishment	50	0
Output (m ³)	Marine erosion	20	69
	Longshore drift	93	130

Table 1 Inputs and outputs of sediment for a beach in Cornwall, UK, during 2017

(i) Find the mode(s) of the data set shown in **Table 1**. [2]

(ii) Calculate the sediment budget for each season shown in **Table 1**. You must show your working. [2]

(iii) State whether each season was in a surplus, deficit or equilibrium state. [2]

(c) Study **Fig. 1**, Isle of Skye, Scotland, UK; an area that has experienced climate change.

With reference to **Fig. 1**, explain the role of **one** geomorphic process in forming landform **A**. [3]

(d)* 'Geology is the most significant influence on coastal landscapes.' To what extent do you agree with this statement? [16]

Total Marks for Question Set 9: 33

Resource Materials

- 1 (c) Fig. 1 – Isle of Skye, Scotland, UK

Landform A





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