

A level Geography

H481/01 Physical systems

Question Set 11

Dryland Landscapes

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

(b) Study **Table 1**, which shows inputs and outputs of water equivalent for a desert in Chile during 2017.

		Summer	Winter
Input (mm)	Cold front snowfall	0	194
	Advection snowfall	0	4
	Rainfall	2	1
Output (mm)	Evapotranspiration	2000	8
	River discharge	20	4

Table 1 Inputs and outputs of water equivalent for a desert in Chile during 2017

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

(ii) Calculate the water balance 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**, Western Desert, Egypt; an area that has experienced climate change.

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

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

Total Marks for Question Set 11: 33

Resource Materials

1 (c) Fig. 1 – Western Desert, Egypt





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