Drainage basins as open systems 3.1.1.2

Q1	True or False?	
Α	Glaciers can generate an input into a river system	
В	Precipitation means rainfall in its various forms	
С	Groundwater can operate as an input, a store and an output of drainage systems	
D	Evaporation may be considered an output of a drainage basin	
E	A lake is only considered a water store if it is contained by a dam.	

Q2	Match each term to the correct description			
Α	The loss of moisture to the atmosphere from plants via leaf stomata			
В	Water being absorbed by soil			
С	The transfer of water over impermeable material			
D	The loss of moisture to the atmosphere that resides on leaf, stem and branch surfaces plus from the internal structures of plants			
E	The movement of water through porous rock into underground stores			
Selec	Select from: Percolation Transpiration Surface flow Evapotranspiration Infiltration			

Q3	Tick which of the alternative sequences is most likely	
Α	Precipitation – Throughflow – Surface flow	
	Surface flow – Throughflow – Precipitation	
	Precipitation – Surface flow – Throughflow	
В	Percolation – Infiltration – Groundwater store	
	Infiltration – Percolation – Groundwater store	
	Infiltration – Groundwater store – Percolation	
С	Transpiration – Infiltration – Precipitation	
	Infiltration – Precipitation – Transpiration	
	Precipitation – Infiltration – Transpiration	
D	Evaporation – Interception – Precipitation	
	Precipitation – Evaporation – Interception	
	Interception – Evaporation – Precipitation	
E	Soil storage – Infiltration – Evaporation	
	Infiltration – Soil storage – Evaporation	
	Evaporation – Soil storage – Infiltration	

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Q4	Decide whether the resultant change in brackets will be an increase +, a decrease -				
	, or no change =				
A	Precipitation increases	(Surface flow?)	Rapid channel flow increase		
В	Percolation reduces	Infiltration reduces	(Throughflow ?)		
С	Precipitation stays same	Vegetation increases	(Surface flow ?)		
D	Field capacity increases	(Infiltration ?)	(Surface flow ?)		
E	(Evaporation ?)	Precipitation reduces	(Lake storage ?)		

Q5	Classify physical and human factors that could cause the following to occur
A	A reduction in output of water from a river basin into a sea over a period of years.
В	An increase in the store of water in underground aquifers over a period of decades.

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