

Coastal systems geomorphological & coastal processes 3.1.3.2

Q1	Match the terms with their process description		
A	Repeated heating & cooling of rock leading to expansion & contraction		
B	Tree roots widening fissures at the top of a cliff		
C	Cliff faces being chipped as storm waves fling material at rock faces		
D	Smoothing, rounding & reducing of beach material by swash/backwash		
E	Powerful effervescence of compressed air as waves recede from joints		
Corrasion/abrasion cavitation attrition exfoliation biological action			

Q2	Tick whether these involve Erosion or Weathering processes	Erosion	Weathering
A	Freeze thaw action		
B	Hydraulic action		
C	Dissolving action by acid rain		
D	Quarrying		
E	Attrition		
F	Corrasion		
G	Oxidation of ferrous minerals within coastal rocks		

Q3	Tick the 2 factors out of each trio that will be most influential in the following processes			
A	Freeze-thaw action	Diurnal temp. range	Predominant wave direction	Degree of jointing of rock
B	Cliff slumping	Offshore currents	Nature of cliff material	Intensity of rainfall
C	Spit formation	Change in angle of coastline	Longshore drift	Concordant coast
D	Longshore drift	Predominant wave direction	Predominant wind direction	Tidal range
E	Cliff retreat	Nature of cliff material	High energy coast	Length of ocean fetch

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Q4	How would geomorphological & coastal processes be different along the Holderness coast if these variables were changed?	
	Development of stacks	Retreat of the Holderness coast
	If the coastal rock at Flamborough Head was granite.....	If the boulder clay cliffs were twice the height....
	Growth of Spurn Point	The East Yorkshire coastal landscape
	If coastal erosion protection methods were put in place along the full Holderness coast....	If it was an entirely concordant coastline....

Q5	Compare and contrast the roles played by Weathering and Erosion processes at the coast.
	Weathering:
	Erosion: