Hazards: The nature of seismicity – forms and causes *3.1.5.4*

Q1	***Match the terms with their process description***	
A	When the weight of glaciers is lifted and land subsequently uplifts	
B	When soft sediments behave like a liquid due to ground tremors	
C	When pressure built up between two plates is released	
D	When a denser tectonic plate is forced under a less dense one	
E	The resultant giant waves caused by submarine earthquakes	
F	Slope failure and mass movement due to ground tremors	

Select from: **landslides** **subduction** **earthquake** **liquefaction** **isostatic recoil** **tsunami**

Q2	**Tick whether these are primary or secondary seismic hazards**	**Primary**	**Secondary**
A	The resultant giant waves caused by submarine earthquakes		
B	Slope failure and landslides due to ground tremors		
C	When pressure built up between two plates is released		
D	When shaking causes loose snow to avalanche downslope		
E	When soft sediments behave like a liquid due to ground tremors		

Q3	**Tick the 2 factors out of each trio that will be most influential in the following processes**			
A	Avalanches	**Depth of snow**	**Strength of earthquake**	**Rock type**
B	Landslides	**Angle of slope**	**Altitude of mountain**	**Strength of earthquake**
C	Liquefaction	**Water content**	**Distance inland**	**Depth of soft sediments**
D	Earthquake intensity	**Depth of focus**	**Population density**	**Distance to epicentre**
E	Tsunami	**Proximity to coast**	**Depth of focus**	**Strength of earthquake**

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Q4	***How would seismic processes be different along the Pacific Basin if these variables were changed?***
Strength of earthquakes	***Damage and death toll from earthquakes***
If the plates were moving apart…	**If all the countries surrounding the Pacific were wealthy…**
Height of tsunami waves	***The Pacific Basin landscape***
If the area was on a conservative plate margin…	**If the plates were moving apart…**

Q5	***Compare and contrast the following characteristics of seismic processes on constructive and destructive plate margins.***
Magnitude of earthquakes:	
Frequency of seismic events:	
Probability of tsunamis:	