## Hazards: Haiti - A case study of a multi-hazardous environment 3.1.5.7 ANSWERS

Q1	Which of these places is the 'Odd one out' and why?	
Α	Texas	
В	Sichuan	
С	Georgia	✓
D	Guizhou	
E	Oklahoma	
Georgia is not an EM-DAT area with the highest occurrence of natural disasters. The others are.		

Q2	Match each type of vulnerability to the correct description			
А	The degradation and depletion of natural resources		Environmental	
В	Links to the level of development of people, communities and nations		Economic	
С	The inability of people to cope with adverse hazard impacts		Social	
D	Links to population density, remoteness and housing quality		Physical	
Select from: Physical Environmental Social		Economic		

Q3	One sentence is incorrect in each of the descriptions below. Identify the wrong one.			
Α	Haiti is relatively small, with a population of 16.0 million. Haiti is located in a seismically active			
	zone, intersected by two fault lines and lies in an active cyclone region. 60 per cent of Haiti is			
	mountainous, and due to deforestation, landslides and mudslides are common.			
Haiti's population is 10.6 million.				
В	The people of Haiti are particularly vulnerable to hazards as they mostly live in poor-quality			
	housing. There are high levels of poverty (77 per cent living on less than US\$2 a day). People are			
	concentrated on the flood prone coastal areas (at population densities of up to 4,000 km² in Port			
	<del>au Price).</del>			
Population densities are up to 40 000 km2 on the flood prone coastal area.				
С	Haiti is the least developed country in the western hemisphere, with a GDP of £1,300. Due to its			
	low level of socio-economic, environmental and political vulnerability, Haiti can struggle to cope in			
	most disaster situations. The political instability is a further handicap to hazard management.			
Haiti h	as a high level of socio economic, environmental and political vulnerability.			
D	Haiti has experienced severe economic losses due to disasters. The country is located in the middle			
	of the Atlantic hurricane path and is frequently hit by four or five storms between December and			
	March each year. Haiti had suffered nine serious storms over the previous 20 years affecting 3.5			
	million people and killing over 7 000.			
Hurric	Hurricane season occurs when seas are at their warmest: in the N. hemisphere this is June-November			
Е	Haiti experienced a particularly severe hurricane season in 2008 when it was hit by Tropical Storm			
	Fay and Hurricanes Gustav, <b>Hugo</b> and Ike (FGHI) over a three week period. As a result of flooding,			
	hurricane-force winds, mudslides and coastal surges there were 793 deaths, 25 000 homes			
	destroyed and economic damage of US\$1bn. In total 825 000 people were affected.			
The 'H	The 'H' hurricane was 'Hannah'. Names alter between male and female in Atlantic storm-name lists.			

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Q4	Analyse the risks presented by hazards in Haiti		
Social risks		Economic risks	
c • H c	<ul> <li>Without formal governance, social unrest can occur in Haiti after a hazard event</li> <li>Hazards can disrupt education, health care and other public services which improve the lives of people</li> <li>Countries with large numbers of people living in poverty have low resilience a struggle to rebound after a hazard event</li> <li>When floods wipe out crops, this den farmers incomes</li> <li>Savings are wiped out re-equipping far and workshops</li> </ul>		
Physical risks		Biological risks	
h fl t • V b	The poorest people live in slums, these nouses are most likely to collapse in loods or earthquakes, unable to protect he inhabitants Without being able to afford new building materials, deforestation rates may increase to rebuild homes.	<ul> <li>Flooding in slum areas can transport many viral diseases.</li> <li>Earthquakes and flooding can disrupt access to fresh water</li> <li>The 2010 earthquake brought cholera to Haiti apparently carried by UN peacekeepers from Nepal</li> </ul>	

Q5	Think about how the response to the 2010 earthquake allowed continued human occupation in Haiti  Built environment		
Α			
	<ul> <li>Following the 2010 earthquake, the NDRMS Emergency Operations Centre, Port au Prince's main fire station and many government buildings were rebuilt to improved standards ready for the next disaster</li> <li>The control tower at the airport was redesigned after it collapsed during the 2010 earthquake</li> <li>Advice on seismic design is being implemented by NGOs working in Haiti. Homeowner-driven reconstruction is preferred over foreign company reconstruction to empower the local community.</li> </ul>		
В	Preparation		
	<ul> <li>Expanding the number of weather-monitoring stations across the island can provide vital time for people to prepare or evacuate before storms or flooding occurs.</li> <li>Improved mobile technology has improved crisis mapping and the sharing of actionable information for aid organisations.</li> <li>Farmers are being educated as to how to manage soils and trees to improve agroforestry practices and increase the size of the forest in Haiti.</li> </ul>		

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