## Sustainable urban development 3.2.3.8 ANSWERS

Q1	Match the terms with their correct definition			
А	Acting in a way such that current operations don't compromise or leave	Sustainability		
	issues for future generation			
В	The consequences of an action, the costs of which are borne by the	Externality		
	area of impact rather than at the source of the process			
С	Taking all components into account when considering an issue, seeing	Holistic		
	links and associations and viewing the whole.			
D	The average productivity of all biologically productive areas on earth	Global hectare		
	(land and sea) in a given year measured in the stated area			
Е	The quality of experience that can be anticipated in a particular place	Liveability		
	on the basis of health, education and other key measures			
	Liveability Sustainability Externality Holistic	Global hectare		

Q2	Tick if these are Inputs cities require or Outputs they generate	Input	Output
А	Agricultural produce	✓	
В	Construction materials	✓	
С	Acid rain constituents		✓
D	Clean water	✓	
Е	Unrecyclable solid waste		✓
F	Energy and power	✓	
G	Contaminated effluent		✓

Q3	Which category of sustainable urban action does each of these most relate to?					
		Physical	Environmental	Economic	Social	
А	Investing in mass-transit transport systems		~			
В	Limiting urban sprawl through green belt policy	✓				
С	Setting up funds to invest in rural improvement			✓		
D	Recycling and re-using urban waste water		~			
E	Banning the use of PVC in new buildings		✓			
F	Reducing urban inequality by subsidising housing				✓	

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Q4	Suggest how urban areas can become the following dimensions:	e more sustainable in their contributions to			
Transport sustainability		Water sustainability			
<ul> <li>De</li> <li>Int</li> <li>De</li> <li>Ba</li> <li>Co</li> </ul>	vesting in public transport systems esignating bus lanes on existing roads tegrating bus, rail & cycling systems esignating cycles lanes/hiring unning cars from areas/ on days onverting public transport to non-fossil el use	<ul> <li>Reducing urban water consumption</li> <li>Reducing water leaks</li> <li>Recycling water</li> <li>Grey water re-use</li> <li>Rainwater harvesting</li> <li>Metering of water use</li> </ul>			
Economic sustainability		Health sustainability			
<ul> <li>Lo</li> <li>En</li> <li>Div</li> <li>En</li> <li>th:</li> </ul>	atting emissions through clean air laws wer tax rates for reducing emissions couraging long-term profitability versifying the economic base courage start-up businesses rather an encouraging from elsewhere	<ul> <li>Ensuring clean air &amp; water for all</li> <li>Separating pedestrians &amp; traffic</li> <li>Education of healthy lifestyles</li> <li>Preventative medical systems</li> <li>Open social access medical provision</li> <li>Provision of green spaces</li> </ul>			
Regioi	nal sustainability	Global sustainability			
co wi • En to • Mi • Cu pa • Ba	educing negative resource-demand nsequences on surrounding region thout cutting revenue flows suring benefits flow from urban areas surrounding region (social & economic) inimising waste transfer (liquid & solid) atting air pollution (contaminants, rticulates and noxious gases) lancing in-flows of talented people th reverse movement	<ul> <li>Minimising particulate emissions (global dimming)</li> <li>Minimising CO2 emissions (global warming)</li> <li>Reducing air miles for key transfers</li> <li>Exchanging best practice with other cities rather than competitive advantage</li> </ul>			

Some cities claim they are becoming more sustainable but without effective strategies, termed 'greenwash' (from 'whitewash'). How could you tell if sustainable claims were just false imaging of the city? One has been started...

Ineffective (greenwash) sustainable strategies:

- There is only a short-term improvement that quickly reverts back to the original state
- Improvement tackle minor environmental issues but ignore the major ones
- Improvements take place, but require inputs (of capital/people/resources) that are unsustainable
- Benefits accrue to the wealthiest and powerful and widen inequality
- Improvements are limited to parts of the urban area in least need
- Strategies increase discord and conflict
- Strategies solve one key issue, but create another/others
- Strategies ignore externalities

Q5