## Causes & factors in wildfires, impacts & responses 3.1.5.5 ANSWERS

Q1	True or False?	
А	All wildfires are ignited as a result of a natural cause.	False
В	Dry, hot, windy weather provides the ideal conditions for a wildfire event.	True
С	Global warming is forecast to make wildfire events more likely.	True
D	Wildfires can jump across open space and ignite new fires some distance away.	True
Е	Some types of vegetation rely on wildfires for reproduction to take place.	True

Q2	Match the correct term to the correct definition		
А	The act of reducing the severity of an event.		Mitigation
В	A state of readiness in preparation for an event.	Preparedness	
С	The act of stopping something from happening.	Prevention	
D	Where the local climate is calm as sinking air blows out of t	High pressure	
Е	The act of changing in order to cope with a new situation.		Adaptation
Selec	ct from: Preparedness Mitigation Prevention	Adaptation	High pressure

Q3	One sentence is incorrect in each of the explanations below. Identify the wrong one.
А	High pressure systems cause very calm hot conditions over the summer months in many places. This
	focused heat on the ground creates conditions for a fire. Often, a cigarette butt will be discarded and this
	will be the main cause, and the subsequent wildfire will spread quickly. These fires are easy to contain.
	No wildfire is easy to contain, hence the term – meaning 'uncontrolled natural fire'. From an initial
	flame, the wildfire can spread several miles across in a matter of hours. The initial cause is unlikely to
	be found before the spread occurs due to many fires starting in remote areas.
В	Fast spreading fires cause human fatalities with some trapped in their houses. Some are killed by burns
	with many overcome by the smoke associated with the fires. Agricultural land is also burnt, but most
	livestock will survive, having evacuated the area as they are sensitive to the first signs of smoke.
	As wildfires have no distinct pattern to their movement and are often changing direction according to
	the prevailing winds at the time and the land use it travels across; many farmers are ill prepared to deal
	with the fires and have to evacuate their farms at the last minute, often leaving their livestock to perish.
С	Fires spread quickly, particularly in dense forested areas. They can crawl through low lying shrubbery and
	can spread underground through brush fuel. When fires reach gaps between trees, for example, road
	networks, this acts as a boundary and will restrict the spread of a fire to a larger area.
	Fires can leap across roads to nearby forests. This occurs as a result of leaves and branches catching fire
	on one side of the road, falling to the ground and then being carried over the road by the wind, which
	then ignites that forest as well. Glowing cinders can spread fires much further carried on the wind.
D	There are many methods that can be used to control and extinguish a wildfire. These include using a fire
	retardant dropped from a helicopter or plane. Also, constructing a fire break to act as a barrier that is wide
	enough to avoid windblown cinders. The fire retardant is particularly effective and all countries at risk of
	wildfires use this method a lot.
	Fire retardant is effective, but also very costly and for areas prone to large fires it can take a long time to
	apply.
Е	Global warming is likely to increase the likelihood of future forest fires in certain areas where these
	hazards already exist. This is purely down to a reduction in rainfall, leaving vegetation drier and hotter
	weather. It may extend wildfire risk to new areas that haven't been at risk before.
	This is the main reason why wildfires will occur more often but the impact of global warming on this
	issue is much more complex. Global warming will lead to shorter winters, meaning less snow and water
	storage in soils, leaving vegetation a lot drier at the start of the summer season. Also, lightning strikes
	will become more prevalent, which will trigger forest fires.

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Q4	Decide which heading the various wildfire impacts match with:			
Primary impacts			Secondary impacts	
Human deaths			Tourism losses to area	
Crop destruction			Psychological impact on people	
Property destruction			Businesses remain closed	
Habitat destruction		Atmospheric increase in CO2		
			Water catchment co	ontamination
Human	Human deaths Tourism losses to area Water catchment contamination			
Psychological impact on people Businesses		nesses remain closed	Crop destruction	
Propert	operty destruction Atmospheric CO2 increase Habitat destruction		Habitat destruction	

Q5	Think about the short and long-term responses to wildfires
А	Short term responses:
	Firefighters on the ground and water drops from planes
	Evacuation
	Search & rescue
	Provide refuge away from the area – shelter, food and water.
	Regular updates re: direction of wildfire
В	Long term responses:
	Medical and psychological support for people
	Rebuilding properties
	Improving infrastructure to reduce future fire risk in future (electricity cables etc.).
	Making properties fire retardant – introducing new codes of practice.
	Constructing underground fire refuge havens to remote properties.
	Regular clearing of brushwood from beneath forests.