

Weather Hazards & Climate Change

Multiple choice knowledge checker

1.	Wh	at is a natural hazard?		Air	sinks at 30 degrees north and south of		
		An extreme hazard caused by human	6.		e Equator. What kind of pressure does		
0	A.	activity.		thi	s bring?		
		An extreme natural event that	0	A.	High pressure		
	_	threatens people or has the potential	0	B.	Low pressure		
0	В.	to cause damage, destruction and			'		
		death.		WI	nat kind of weather is associated with		
0	C.	A hazard caused by climate change.			king air 30 degrees north and south of		
		A hazard resulting from the			e Equator?		
0	D.	movement of tectonic plates.	0	A.			
			0	В.	, , , , , , , , , , , , , , , , , , ,		
	Wh	at helps explain the location of world	0	C.			
2.		nate zones and the distribution of	0	D.	, ,		
	_	ather hazards?		υ.	manacistomis		
0	Α.	Global atmospheric circulation		Fr	om the equator, moving north, identify		
0	В.	The Hadley Cell	8.		e correct order of the three convection		
0	C.	Low pressure systems	0.	ce			
0	D.	Tropical storms	0	A.	-		
	υ.	Tropical storms	0	B.			
	Tru	e or false?	0	С.			
	_	e of faise: en the Sun's rays strike the Earth, they			Hadley, Ferrel then Polar Cell		
		concentrated differently on areas of	U	O D. Ferrel, Hadley and Polar Cell			
3.		land depending on latitude. At the		T	on an falan 2 M/Sanda ana than assufa an af tha		
٥.		uator the Sun's rays are concentrated			True or false? Winds on the surface of the		
		t is much hotter than at the Poles	9.		Earth are caused as air moves from high		
		ere they are more spread out			to low pressure areas in the convection cells.		
0	A.	True					
0			0	Α.			
	B. False O B. False						
	۸ir	at the Equator is heated strongly so it					
		es, creating low pressure conditions.	40		n the surface of the Earth, winds bend		
		e air then flows north and south high in	10.		the Earth spins. What is this effect		
4.		atmosphere, then sinks as it cools.			nown as?		
		nich convection cell is responsible for	0	Α.			
	this	•	0	В.			
0	A.	Polar Cell	0	C.	· · · · · · · · · · · · · · · · · · ·		
	B.	Ferrel Cell	0	D.	Trade winds		
0							
-	C. Hadley Cell				ue or false?		
0	D. Pressure Cell				urface winds bend to the right in the		
	T (1.2			no	orthern hemisphere and to the left in		
_		e or false?			e southern hemisphere.		
5.		air rises at the Equator it cools,	0	Α.			
	 	ndenses and brings cloud and rain.	0	В.	False		
	A.	True					
0	В.	False			rue or false?		

12.

Ο

0

A. True

B. False

Tropical storms occur between 5 and 30

degree north and south of the Equator.

	Tru	e or false?			
	Tropical storms occur between 5 and 30				
13.	degrees north and south of the Equator				
	because due to areas of intense high				
	pre	ssure.			
0	A.	True			
0	B.	False			
	1				
14.		en are hurricanes most likely to occur			
	in t	he Atlantic Ocean?			
0	A.	August to October			
0	В.	January to March			
0	C.	June to August			
0	D.	November to January			
	,				
15.		nat are tropical storms that move			
		th in the Indian Ocean known as?			
0	Α.	Hurricanes			
	B.	Typhoons			
0	C.	Cyclones			
0	D.	Willy-willies			
	\ A / l-	ant temperature does the assess seed			
16.		nat temperature does the ocean need			
0	1	be for a tropical storm to form?			
0	A.	26°C			
0	В. С.	27°C			
$\frac{\circ}{\circ}$	D.	28°C			
	υ.	20 C			
	Tru	e or false?			
17.	_	pical storms occur when air pressure			
		igh.			
0	Α.	True			
0	В.	False			
	Wii	nd within a tropical storm is constant			
10	and	and doesn't vary with height so clouds			
18.	rise to high altitudes without being torn				
	ара	art. What it this better known as?			
0	A.	Low wind shearing			
0	В.	Low wind shear			
0	C.	Coriolis effect			
0	D.	Low pressure			
19.	Wh	at is the centre of a tropical storm			
±9.	kno	pwn as?			
0	Α.	Eve			

20.	What is the name of the clouds that form at the centre of a tropical storm?		
0	A.	Stratus	
0	В.	Cirrus	
0	C.	Nimbus	
0	D.	Cumulonimbus	

21.	When does a tropical storm lose its energy?		
0	A.	When air temperatures increase.	
0	В.	When the tropical storm makes landfall.	
0	C.	When oceanic temperatures increase.	
0	D.	When wind speeds increase.	

22.	Identify the direction tropical storms spin in the northern hemisphere.		
0	A.	Clockwise	
0	В.	Anti-clockwise	

	True or false?		
23.	A cross section of a tropical storm is		
	symmetrical in shape.		
0	A.	True	
0	В.	False	

24.	Identify the conditions associated with			
24.	the	the eye of a tropical storm.		
0	Α.	Calm, temperatures are warmer, no		
		wind or rain.		
0	В.	Calm, temperatures are colder, no		
		wind or rain.		
0	C.	Temperatures are warmer, strong		
		wind and rain.		
0	D.	Temperatures are colder, strong		
		wind and rain.		

25.	Wh	ich of the following can be caused by
25.	a tr	opical storm?
0	Α.	Tsunami
0	В.	Storm surge
0	c.	Earthquake
0	D.	Drought

		e or false?	
26. Climate change is likely to have a		nate change is likely to have an impact	
		on tropical storms.	
0	A.	True	
0	В.	False	

0

0

0

В.

C.

Nose

Mouth

Centre

27.	Which of the following are expected to be impacts of climate change on tropical storms?	
0	A.	There may be more tropical storms in areas such as the South Atlantic and parts of the sub-tropics.
0	В.	The frequency of tropical storm is likely to increase.
0	C.	The frequency of category 4 and 5 storms is likely to increase.
0	D.	Tropical storms are expected to become more intense.

28.	Which of the following are primary effects of Typhoon Haiyan?	
0	A.	50% of houses destroyed.
0	В.	6,190 people died.
0	C.	4.1 million people were made homeless.
0	D.	Infection and diseases spread.

29.	Which of the following is not a primary,		
25.	social impact of Typhoon Haiyan?		
0	Α.	50% of houses destroyed.	
0	В.	6,190 people died.	
0	C.	4.1 million people were made	
		homeless.	
0	D.	US\$12 billion of damage	

	Which of the following is not an example				
30.	of a primary, economic impact of				
	Тур	Typhoon Haiyan?			
C	A.	The UN stated 75% of farmers and			
		fishermen lost their income.			
0	В.	B. Damage to rice cost US\$53 million.			
0	C.	Looting was rife, due to a lack of			
		food and supplies.			
0	D. US\$12 billion of damage.				

31.	Which of the following is not an example of a primary, environmental impact of Typhoon Haiyan?		
0	Α.	An oil barge ran aground resulting in	
0	В.		
0	C. 1.1 million tonnes of crops were destroyed.		
0	D.	Flooding caused landslides.	

32.	Identify the secondary, social impact of Typhoon Haiyan.		
0	Α.	A. Infection and disease spread due to contaminated surface and ground water.	
0	В.	The fishing industry was disrupted due to oil leaks contaminating fishing waters.	
0	C.	Flooding caused landslides.	
0	D. The airport was damaged and roads were blocked.		

33.	Identify the secondary, economic impact of Typhoon Haiyan.		
0	A.	A. Infection and disease spread due to contaminated surface and ground water.	
0	B. due to oil leaks contaminating fishing waters.		
0	C.	Flooding caused landslides.	
0	D.	Eight people died in a stampede for rice.	

34.	Identify the secondary, environmental impact of Typhoon Haiyan.		
0	Α.	Infection and disease spread due to	
0	В.	B. due to oil leaks contaminating fishing waters.	
0	C.	Flooding caused landslides.	
0	D.	Eight people died in a stampede for rice.	

	Tru	e or false?		
Immediate responses to a disas		mediate responses to a disaster occur		
35.	during and immediately after the event.			
	Long-term responses occur in the			
	following weeks, months and years.			
0	A.	True		
0	B.	False		

36.	Which of the following is not an example of an immediate response to Typhoon Haiyan?		
0	A.	A. The government televised a warning for people to prepare and evacuate.	

0	В.	Over 1,200 evacuation centres were					
	Б.	set up.	42.	Preparing disaster supply kits in the ev			
		To reduce looting the government	42.	of a	a tropical storm is known as what?		
0	C.	imposed a curfew two days after the	0	A.	Monitoring		
		typhoon.	0	B.	Prediction		
0	D.	Oxfam replaced fishing boats.	0	C.	Planning		
			0	D.	Protection		
	Wh	nich of the following is not an example		ı			
37.		a long-term response to Typhoon		Tru	ie or false?		
		iyan?		An extreme weather event is where			
0	A.	Mangroves were replanted.	43.		ather is severe or out of season and		
		A no-build zone was established			ferent to the usual pattern.		
0	В.	close to the coast.	0	A.	True		
		Emergency aid supplies arrived by	0	В.	False		
0	C.	plane three days after the typhoon.		ъ.	1 8136		
		A cash for work programme paid		\A/k	sich of the following is not an every		
0	_	people to clear debris and rebuild	4.4		nich of the following is not an examp		
	D.	· · ·	44.		of extreme weather experienced in th		
		properties.		UK	· I		
		. 1 . 6 . 1 . 6 . 1	0	Α.	Storm Events		
		nich of the following is not a way the	0	В.	Flooding		
38.		ects of tropical storms can be	0	C.	Droughts and heatwaves		
	+	duced?	0	D.	Extremes of cold weather		
0	A.	Monitoring	0	E.	Typhoons		
0	B.	Prediction					
0	C.	Protection		True or false?			
0	D.	Probation	45.	45. Air masses affect the type of v			
0	E.	experiences.					
			0	A.	True		
	Wh	nat is the use of satellites to seek cloud	0	B.	False		
39.	pat	tterns associated with tropical storms					
	an	example of?	_	Ide	ntify the type of pressure system th		
0	A.	Monitoring	46.	brings strong winds and rain to the UI			
0	B.	Prediction	0	A.	High pressure		
0	C.	Planning	0	В.	Low pressure		
0	D.	Protection		<u> </u>	Low pressure		
	1			\ \ /\	nich of the following is not a cause o		
	\//h	nat is the reinforcement of buildings to	47.		oding in the UK?		
40.		duce the impacts of tropical storms an	0	A.	Tsunami		
70.		ample of?					
0	-	1 -	0	B.	Storm surge		
0	A.	Monitoring	0	C.	Prolonged rainfall		
	B.	Prediction	0	D.	Torrential rainfall		
0	C.	Planning	Γ				
0	48 Which of the following is the						
	ı			de	finition of a drought in the UK?		
41.		ly warnings, issued by national	0	A.	10 or more consecutive days with		
	hur	rricane centres is an example of what?		Λ.	less than 0.2mm on any one day.		
0	A.	Monitoring	0	B.	15 or more consecutive days with		
	I 6	Decalled to	ı	D.			

	Pre	paring disaster supply kits in the event		
42.		a tropical storm is known as what?		
0	A. Monitoring			
0	B. Prediction			
0	C.	Planning		
0	D.	Protection		
	Tri	ue or false?		
	_	extreme weather event is where the		
43.		ather is severe or out of season and		
		ferent to the usual pattern.		
0	Α.	True		
0	В.	False		
	ı			
	Wh	nich of the following is not an example		
44.	of e	extreme weather experienced in the		
	UK	?		
0	A.	Storm Events		
0	B.	Flooding		
0	C.	Droughts and heatwaves		
0	D.	. Extremes of cold weather		
0	E.	Typhoons		
	Tru	e or false?		
45.	Air	masses affect the type of weather the		
	UK experiences.			
0	1	True		
0	В.	False		
46.	Ide	ntify the type of pressure system that		
40.	brii	ngs strong winds and rain to the UK.		
0	A.	High pressure		
0	B.	Low pressure		
4-	Wh	ich of the following is not a cause of		
47.		oding in the UK?		
0	A.	Tsunami		
0	В.	Storm surge		
0	C.	Prolonged rainfall		
0	D.	Torrential rainfall		

0

0

0

В.

C.

D.

Prediction

Protection

Planning

less than 0.2mm on any one day.

20 or more consecutive days with

less than 0.2mm on any one day.

C.

0

49.	Which of the following is not an example of a potential impact of a storm event?		
0	Α.	A. Death	
0	В.	. Downed power supplies	
0	C.	C. Roads can melt and railways can buckle	
0	D.	Disruption to transport	

50.		Which of the following is not an example of a potential impact of a flood event?		
0	A.	A. Crops ruined		
0	В.	B. Death by drowning		
0	C.	C. Landslides		
0	D. Increased risk of falling in the snow			

	Which of the following is not an example			
51.	of a potential impact of a drought and			
heatwave?		atwave?		
0	A.	A. Reservoirs run low		
0	В.	B. Death by drowning		
0	C.	C. Railway lines can buckle		
0	D.	Elderly vulnerable to heat exhaustion		

52.	Which of the following is not an example of a potential impact of extreme cold weather?	
0	Α.	Increased injuries caused by people falling.
0	B. Storm surge	
0	C.	Roads, railways and airlines shut.
0	D.	Crops fail and cattle may not survive.

53.		ich type of extreme weather event		
	wa	was the Beast from the east?		
0	A.	Storm Event		
0	В.	Flooding		
0	C.	Drought/heatwave		
0	D.	Extreme cold weather		

54.	Which air mass was responsible for bringing the Beast from the East to the UK?	
0	A.	Tropical continental
0	В.	Arctic Maritime
0	C.	Polar Maritime
0	D.	Polar Continental

	Over which sea did the Beast from the		
55. East pick up water that resulted		t pick up water that resulted in heavy	
	snowfall over the UK?		
0	A.	Irish Sea	
0	В.	North Sea	
0	C.	English Channel	
0	D.	Norwegian Sea	

56.	Which of the following is not an example of a social impact of the Beast from the East?	
0	A. 10 people died	
0	В.	Hundreds of schools were forced to close
0	C. Many rail services were cancelled	
0	D.	There was a shortage of food in some supermarkets

57.	Which of the following is an example of a primary impact of the Beast from the East?		
0	A.	A. 10 people died	
0	В.	Hundreds of schools were forced to close	
0	C.	The National Grid issued a 'gas deficit warning' prompting fears of a shortage, but households were reassured domestic supplies would not be affected.	
0	D.	There was a shortage of food in some supermarkets.	

	\ A / l-	iah aftha fallawina ia nata nasasasa			
58.	Which of the following is not a response				
	tot	the Beast from the East?			
		Flood warnings were issued by the			
0	A.	Environment Agency for parts of			
		Cornwall's south coast.			
		The Royal Air Force was drafted in to			
	В.	help relief efforts in snow-hit			
		Lincolnshire. Ten RAF vehicles and			
0		their crews transported doctors and			
		stranded patients after local police			
		admitted they were struggling to			
		cope.			
	C.	High on the Pennines on the M62,			
0		the military was called in to help			
		rescue vehicles.			
	D.	Drifting snow led to the isolation of a			
		number of villages			

	Tru	e or false?				
59.	The frequency of extreme weather				Tru	e or false?
	eve	ents in the UK is increasing.			Scie	entists suggest that the increasing
0	Α.	True	'	66.	free	quency of extreme weather events
0	В.	False			can	be blamed on climate change.
	l			0	Α.	True
	Sin	ce the 1980s what has happened to		0	В.	False
60.		nperatures in the UK?				
0	Α.				Tru	e or false?
0	В.	Increased by around 1°C				e increase in the temperature of the
0	С.	Increased by around 2°C	67	67.		antic Ocean may simply be a long-
0	D.	Decreased by around 1°C		07.		m cycle or due to the position of the
	υ.	Decreased by around 1 C				stream and not climate change.
	\ \ /b	eat has hannoned to winter rainfall in		0	A.	True
61.		at has happened to winter rainfall in UK since the 1980s?		0	В.	False
					ъ.	Taise
0_	Α.	Remained the same	C:	באווב	c and	d Effects of Climate Change
0	B.	Increased	C	ausc	3 0110	a Effects of climate change
0	C.	Decreased			Tru	e or false?
						ere has been an unprecedented
	_	e or false?	(68.		rease in global temperature since the
62.		ere have been more weather records			197	•
		ken recently than ever before.		0	A.	True
0	A.	True		0		
0	В.	False		<u> </u>	В.	False
					Λ 10	ingresse in grouphouse gasses in the
		e or false?	69.	An increase in greenhouse gasses in the atmosphere has what impact?		
63.		e UK experienced its highest recorded		atm	Less infrared radiation reflected from	
	ten	nperature in 2019.				
0	Α.	True				the surface of the Earth can escape
0	В.	False		0	A.	5
						leading to an increase in
64.	Wh	ich of the following is not an example				temperature.
04.	of a	a future prediction for UK weather?				More shortwave radiation from the
0	۸	Precipitation is expected to become		0	В.	sun can pass through the
0	A.	even more seasonal.				atmosphere leading to an increase in
		Some rivers are expected to flood				global temperatures.
0	B.	more frequently in winter due to				
		increased rainfall.	-	70.		ich of the following is not an example
		Air temperature is expected to				natural cause of climate change?
0	_	All temperature is expected to		0		
	C.	increase, causing more drought.			A.	Orbital changes
		·		0	B.	Solar output
0	C.	increase, causing more drought.		0		
0		increase, causing more drought. Precipitation is expected to become		0	B.	Solar output
0	D.	increase, causing more drought. Precipitation is expected to become		0	В. С.	Solar output Agriculture
O 65.	D.	increase, causing more drought. Precipitation is expected to become less seasonal. e or false?	[- - -	0 0	B. C. D.	Solar output Agriculture
	D. Tru Clir	increase, causing more drought. Precipitation is expected to become less seasonal.		0	B. C. D.	Solar output Agriculture Volcanic activity
	D. Tru Clir	increase, causing more drought. Precipitation is expected to become less seasonal. The or false? The or false cannot be responsible for		0 0	B. C. D.	Solar output Agriculture Volcanic activity ich of the following is not an example
65.	D. Tru Clir ind A.	increase, causing more drought. Precipitation is expected to become less seasonal. The or false? The or false cannot be responsible for ividual extreme weather events. True		0 0 0 71.	B. C. D.	Solar output Agriculture Volcanic activity ich of the following is not an example a human cause of climate change?
65.	D. Tru Clir ind	increase, causing more drought. Precipitation is expected to become less seasonal. e or false? mate change cannot be responsible for ividual extreme weather events.		0 0 0 71.	B. C. D. Wh of a	Solar output Agriculture Volcanic activity ich of the following is not an example a human cause of climate change? Fossil fuels

72.	Which of the following is not an example of evidence for climate change?	
0	A.	An increase in average surface air temperature by 1°C over the last 100 years.
0	В.	Average precipitation has increased by 3000mm per year.
0	C.	The warmest ocean temperatures since 1850.
0	D.	Sea levels have risen by 19cm since 1900.

73.	Which of the following is not an example of a natural recorder of climate change?	
0	A.	Tree rings
0	В.	Ice Cores
0	c.	Igneous rock cores
0	D.	Ocean sediment

74.	True or false?			
	The Quaternary period has over twenty			
/4.	сус	cycles of cold glacial periods, and warmer		
	glacial periods.			
0	A.	True		
0	В.	False		

75.	Identify the social effects of climate			
	change. You can select more than one.			
0	Α.	Increased risk of diseases and skin		
		cancer.		
0	В.	Milder winters will lead to fewer		
		winter-related deaths.		
0	C.	Flood risks increases insurance costs.		
)	Sea-level rise will increase flooding		
	D.	and coastal erosion.		

76.	Identify the environmental effects of climate change. You can select more than one.	
0	A. Increased droughts in the Mediterranean area.	
0	B. Declining fishing in the Lower Mekong delta.	
0	C.	Ice melts, so wildlife declines in places such as the Arctic.
O D. Increase in fores Europe.		Increase in forest growth in northern Europe.

77.	Reducing or preventing the effects of		
	climate change is known as what?		
0	A.	Adaptation	
0	В.	Mitigation	
0	C.	Migration	
0	D.	Prediction	

78.	Identify the examples of climate mitigation listed below.		
0	A.	Alternative energy production	
0	В.	Carbon capture	
0	C.	Managing water supplies	
0	D.	. International agreements	

		6.1.0		
	True or false?			
	Climate adaptation does not involve			
79.	reducing or stopping global warming.Instead it involves responding to climate			
	change by limiting its negative effects.			
0	A.	True		
0	В.	False		

80.	Constructing flood defences such as the Thames barrier is an example of which		
	type of adaptation strategy?		
0	A.	Changes in agricultural systems	
0	В.	Managing water supplies	
0	C.	Reducing risk	

	Which type of volcanic eruption risk		
91.	management involves educating people		
	about avoiding injury and loss of life?		
0	A.	Prediction and monitoring	
0	В.	Protection	
0	C.	Planning	

A	26 1	F4 D
Answers	26 – A	54 – D
	27 – A, C and D	55 – B
1 – B	28 – A, B and C	56 – C
2 – A	29 – D	57 – A
3 – A	30 – C	58 – D
4 – C	31 – D	59 – A
5 – A	32 – A	60 – B
6 – A	33 – B	61 – B
7 – C	34 – C	62 – A
8 – C	35 – A	63 – A
9 – A	36 – D	64 – D
10 – A	37 – C	65 – A
11 – A	38 – D	66 – A
12 – A	39 – A	67 – A
13 – B (it is due to low	40 – D	68 – A
pressure in this area)	41 – B	69 – A
14 – A	42 – C	70 – C
15 – C	43 – A	71 – B
16 – C	44 – E	72 – B
17 – B	45 – A	73 – C
18 – B	46 – B	74 – A
19 – A	47 – A	75 – A, B and C
20 – D	48 – B	76 – A, C and D
21 – B	49 – C	77 – A
22 – B	50 – D	78 – A, B and D
23 – A	51 – B	79 – A
24 – A	52 – B	80 – C
25 – B	53 – D	