## internet geography

# Ecosystems

Multiple choice knowledge checker

1.	What is an ecosystem?		
		A community of plants and animals	
0	Α.	sharing an environment with non-	
		living things.	
$\circ$	В.	The flow of energy between living	
0	Б.	organisms.	
0	C	A global biome such as the tropical	
0	U.	rainforest.	
0	D.	The pathways through which	
0		nutrients are constantly recycled.	

2.	Which of the following statements is		
	tru	e?	
0	А.	The term biotic relates to all living organisms within an ecosystem such as plants and animals. Abiotic elements are the non-living features such as soil, rocks and the climate.	
0	В.	The term abiotic relates to all living organisms within an ecosystem such as plants and animals. Biotic elements are the non-living features such as soil, rocks and the climate.	

3.	Which of the following is a characteristic			
5.	of a	of a producer in an ecosystem?		
0	Λ	They are herbivores which means		
	Α.	they only eat plants.		
0	Β.	They are carnivores.		
0	C.	They produce their own food through		
		photosynthesis.		
0	D.	They break down dead plants and		
		animals		

4.	Which of the following is a characteristic		
	of a	of a primary consumer in an ecosystem?	
0	A.	They are herbivores which means	
0		They are herbivores which means they only eat plants.	
0	В.	They are carnivores.	
0	C.	They produce their own food through	
		photosynthesis.	
0	D.	They break down dead plants and	
		animals	

Paper 1 – Living World

## Ecosystems

5.	Which of the following is a characteristic of a secondary consumer in an ecosystem?		
0	Α.	They are herbivores which means they only eat plants.	
0	В.	They are carnivores.	
0	C.	They produce their own food through photosynthesis.	
0	D.	They break down dead plants and animals	

6.	Which of the following is a characteristic		
	of decomposers in an ecosystem?		
0	A.	They are herbivores which means	
		they only eat plants.	
0	Β.	They are carnivores.	
0	C.	They produce their own food through	
		photosynthesis.	
0	D.	They break down dead plants and	
		animals	
		· · · · · · · · · · · · · · · · · · ·	

7.	imp we wo	True or false? Decomposers are very important for any ecosystem. If they weren't in the ecosystem the plants would not get essential nutrients and dead matter and waste would gather.		
		Ŭ		
0	Α.	True		
0	В.	False		

A community of plants and animals sharing an environment. The transfer of nutrients in an
The transfer of nutrients in an
ecosystem.
A global scale ecosystem. Also known
as a biome.
A series of organisms each dependent
on the next as a source of food.

9.	True or false? A food web shows lots of		
9.	foo	ood chains and how they overlap	
0	Α.	True	
0	В.	False	

10.	What is the transfer of nutrients through		
	an	an ecosystem is known as?	
0	Α.	Food chain	
0	В.	Food web	
0	C.	The nutrient cycle	
0	D.	A biome	

11.	Ide	ntify three stores in the nutrient cycle.
0	Α.	Air, soil and biomass
0	В.	Biomass, abiotic and biotic
0	C.	Biomass, litter and soil.
0	D.	Litter, soil and air

12.	Which of the following is not a flow		
	wit	within the nutrient cycle.	
0	Α.	Nutrient uptake by plants.	
0	В.	Input dissolved in rain	
0	C.	Output dissolved in evaporation	
0	D.	Loss in run-off	

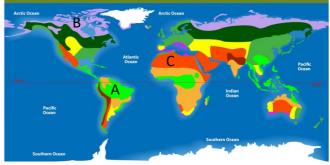
13.	Wh	Which of the following is not an example		
15.	of a	of a small-scale ecosystem		
0	Α.	A hedgerow		
0	В.	A pond		
0	С.	A wood		
0	D.	An area of tropical rainforest		

14.	What is a biome?	
	Α.	A biome is a very large ecological
		areas e.g. tropical rainforest.
	В.	A biome is a small-scale ecosystem
		e.g. pond.
	C.	A biome is a store in the nutrient
0		cycle.
0	D.	All of the above

15.	Which of the following is not an example	
	of a biome?	
0	Α.	Tropical rainforest
0	Β.	Hot Desert
0	C.	Tundra
0	D.	Hedgerow

16.	True or false? <i>Biomes</i> contain fauna and flora (animals and plants) that have	
	adapted to the environment.	
0	Α.	True
0	В.	False

The main biomes in the world



17.	Look at the map above. Which answer		
	below correctly identifies three biomes?		
0	Α.	A = Rainforest, B = Tundra and C =	
		Desert.	
0	В.	A = Tundra, B = Rainforest and C =	
		Desert.	
0	C.	A = Desert, B = Tundra and C =	
0		Rainforest.	
0	D.	A = Tundra, B = Desert and C =	
		Rainforest.	

18.	Which biome is mainly found between		
	15° north – 15° south of the equator		
0	Α.	Hot desert	
0	В.	Tundra	
0	C.	Tropical rainforest	
0	D.	Savanna	

19.	Which biome is mainly found between 15-30° north and south of the equator?	
0	Α.	Hot desert
0	В.	Tundra
0	C.	Tropical rainforest
0	D.	Savanna

20.	Which biome is mainly found in the		
	ext	extreme north?	
0	Α.	Hot desert	
0	Β.	Tundra	
0	C.	Tropical rainforest	
0	D.	Savanna	

21.	Wh	What is the tropical rainforest?	
0	A.	The tropical rainforest is a forest occurring in tropical areas of heavy rainfall.	
0	В.	The tropical rainforest is a forest occurring in tropical areas of low rainfall.	
0	C.	The tropical rainforest is a forest occurring along the tropics of Cancer and Capricorn occurring in areas of high rainfall.	
0	D.	The tropical rainforest is a forest occurring along the tropics of Cancer and Capricorn occurring in areas of low rainfall.	

22.	What % of all life forms on our planet are		
۲۲.	found in tropical rainforests?		
0	Α.	20-40%	
0	В.	30-50%	
0	С.	40-60%	
0	D.	50-70%	

23.	True of false? Rainforests are the most productive and most complex ecosystems on Earth.	
0	Α.	True
0	В.	False

24.	Which of the following best describes		
	climate in the rainforest?		
0	Α.	Temperature = 8°C	
		Rainfall = 1000mm	
0	В.	Temperature = 18°C	
		Rainfall = 1500mm	
0	C.	Temperature = 28°C	
0		Rainfall = 2000mm	
0	D.	Temperature = 38°C	
		Rainfall = 3000mm	

25.	True of false? The largest rainforests are in the Amazon in Brazil (South America),		
	Demographic Republic of Congo (Africa) and Indonesia (South East Asia).		
0	Α.	True	
0	Β.	False	

26.	Where is the greatest area of tropical rainforest found?	
0	Α.	Indonesia
0	Β.	Democratic Republic of Congo
0	С.	Peru
0	D.	Brazil

27.	Identify the rainforest's main layers.	
0	Α.	Plant layer, under canopy, canopy
		and emergent.
	В.	Shrub layer, under shrub layer,
0		canopy and emergent.
$\circ$	C.	Shrub layer, under canopy, canopy
		and emergent.
0	D.	Ground layer, under canopy, crown
		layer and emergent.

28.	True or false? <b>Emergents</b> are the tallest trees and are usually under 30 metres tall	
0	Α.	True
0	Β.	False

29.	True or false? The canopy contains over 50% of the rainforest wildlife.	
0	Α.	True
0	Β.	False

30.	Which type of plant climbs trees to reach sunlight in the canopy?	
0	Α.	Epiphytes
0	В.	Lianas
0	C.	Air plants
0	D.	Sun plants

31.	Name an organism that grows on the surface of a plant and gets its moisture and nutrients from the air, rain, water or from debris gathering around it.	
0	Α.	Epiphytes
0	В.	Lianas
0	C.	Rain plants
0	D.	Sun plants

32.	Why do tree trunks in the under canopy tend to be bare?		
	ten	d to be bare?	
0	Α.	To allow animals to climb them.	
0	В.	To discourage plants from climbing	
		the tree.	
0	C	To discourage animals from climbing	
0	C.	the tree.	
$\circ$	D.	To discourage humans from climbing	
		the tree.	

Which rainforest layer is being described below?
 33. It contains shrubs and ferns and other plants needing less light. Saplings of emergents and canopy trees can also be found here.
 A. Shrub layer,
 B. Under canopy,
 C. Canopy
 D. Emergent.

34.	What is the layer of rotting leaves and dead animals on the forest floor called?		
0	Α.	Rubbish	
0	Β.	Litter	
0	C.	Decaying	
0	D.	Rotting	

35.	True or false? Below the rich top soil th soil lacks nutrients. This is because nutrients are rapidly absorbed by vegetation.	
0	Α.	True
0	Β.	False

	Which of the following is not a way		
36.	vegetation has adapted to the rainforest		
	env	vironment?	
0	Α.	Buttress roots	
0	В.	Waxy leaves	
0	C.	Rough bark	
0	D.	Drip tips	

37.	Why have plants developed a waxy		
	Why have plants developed a waxy surface and drip tips?		
0		The weight of water doesn't damage the plant, and there's standing water for fungi and bacteria to grow in.	

0	В.	The weight of water damages the plant, and there's standing water for fungi and bacteria to grow in.
0	C.	The weight of water doesn't damage the plant, and there's no standing water for fungi and bacteria to grow in.
0	D.	To reduce the risk of flooding in the tropical rainforest.

38.	Why is tree bark thin in the tropical		
50.	rainforest?		
0	Α.	They need protection from the cold	
		at night.	
0	В.	They store nutrients in the bark.	
0	C.	There are not enough nutrients in	
0		the soil.	
0	D.	They do not need protection from	
		the cold.	

39.	Why do plants drop their leaves gradually		
59.	throughout the year?		
0	Α.	They can go on growing all year	
0		round.	
0	Β.	Autumn occurs twice.	
С	C.	The wind is very strong causing the	
0		leaves to be blown off.	
	D.	There are not enough nutrients to	
0		sustain the trees throughout the	
		year.	

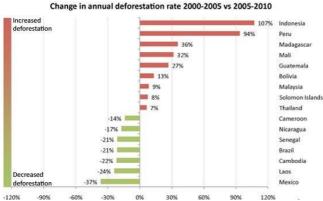
40.	Why are some leaf stems flexible?	
0	Α.	To allow leaves to move with the sun
0		to maximise photosynthesis.
0	В.	To enable plants to disrupt the
		movement of termites.
0	C.	To allow leaves to avoid heavy
		rainfall.
0	D.	To capture more rainfall.

41.	What adaptation has the poison dart frog made to survive in the tropical rainforest?	
0	Α.	Bright colours to attract prey.
0	В.	Claws to grip to the waxy surface of leaves.
0	С.	Bright colours to warn predators.

42.	Wh	Why do sloths have long, sharp claws?	
0	Α.	To cling onto branches	
0	Β.	To extract prey from tree bark	
0	C.	To itch themselves due to the large number of termites that bury into their fur.	
0	D.	To pick their noses.	

43.	The spider monkey has developed a			
45.	pre	prehensile tail. What does this mean?		
0	Α.	A tail that looks like vegetation to		
0		help hide from predators.		
0	В.	A tail that is a different colour to the		
0		rest of the body.		
0	C.	A tail used to attract mates.		
0	D.	A tail able to grasp or hold objects		

44.	Why have geckos developed large, flattened toe pads that have sticky scales on their undersides?		
0	Α.	To hold onto prey.	
0	В.	To help them grip onto the smooth	
0		tree trunks.	
0	С.	To help them swim.	
$\circ$	D.	To easily detach if they are caught by	
		a predator.	



 .120%
 .90%
 .60%
 .30%
 0%
 30%
 60%
 90%
 120%

 Figure 1 Changes in annual deforestation rate
 2000-2005 vs 2005-2010
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45.	Look at figure 1. Where is the rate of		
<i>ч</i> <b>у</b> .	deforestation increasing?		
0	Α.	Mexico, Laos and Cambodia	
0	В.	Indonesia, Peru and Brazil	
0	С.	Indonesia, Peru and Madagascar	
0	D.	Cameroon, Nicaragua and Senegal	

	46.	Look at figure 1. Where is the rate of		
		def	deforestation decreasing?	
	0	Α.	Mexico, Laos and Cambodia	
	0	Β.	Indonesia, Peru and Brazil	
	0	C.	Indonesia, Peru and Madagascar	
	0	D.	Cameroon, Nicaragua and Senegal	

47.	True or false? Over half of the remaining rainforest in Brazil is in some way protected.	
0	Α.	True
0	Β.	False

Which of the following is not a cause of		
deforestation in the tropical rainforest?		
Α.	Cattle ranching	
В.	Afforestation	
C.	Farming	
D.	Road Building	
	def A. B. C.	

Which of the following conditions make			
the	the Brazilian rainforest ideal for HEP?		
Α.	The large number of lakes.		
Β.	The mountainous environment.		
~	Unlimited supply of water and ideal		
C.	river conditions		
D.	There are few indigenous people		
	living there.		
	the A. B. C.		

50.	Which of the following is not a type of		
50.	agriculture affecting tropical rainforests?		
0	Α.	Cattle ranching	
0	Β.	Palm oil production	
0	С.	Soya production	
0	D.	Hydroponics	
<u> </u>		Soya production	

51.	True or false? Deforestation leads to soil	
51.	erosion.	
0	Α.	True
0	В.	False

52.	True or false? Deforestation provides a valuable income in many LICs and NEEs.	
0	Α.	True
0	В.	False

53.	Which of the following is not an example of a local impact of deforestation in the tropical rainforest?	
0	Α.	Elimination of Indian groups and their way of life.
0	В.	Soil erosion
0	C.	An increase in CO2 levels in the atmosphere.
0	D.	Destruction of the nutrient cycle.

Which of the following are global impacts of rainforest deforestation?	
Α.	Global climate change
Β.	Local climate change
С.	Loss of biodiversity
D.	River pollution
<ul> <li>True or false? The tropical rainforest is a valuable provider of resources and opportunities. These fall into two different groups:</li> <li>those provided by the rainforest in its natural state</li> <li>those provided by the land once it is cleared of its forest cover.</li> </ul>	
Α.	True
Β.	False
	of r A. B. C. D. Tru valu opp diff • t nat • t clea A.

56.	True or false? The rainforest is of little		
50.	use	use to pharmaceutical companies.	
0	Α.	True	
0	В.	False	

57.	Which of the following will help reduce		
57.	the impact of climate change?		
0	Α.	Increasing the rate of deforestation	
0	Β.	Reducing burning fossil fuels	
0	C.	Reducing afforestation	
	D.	Greatly reducing the rate of	
		deforestation to make sure that as	
0		much of the Earth as possible is	
		covered by trees to absorb the	
		carbon dioxide in the atmosphere.	

58.	What does it mean to sustainably		
58.	manage the tropical rainforest?		
0	A.	To use the rainforest in a way that enables local people to benefit from the rainforest today, but ensures the resource is available to future generations.	
0	В.	To use the rainforest in a way that enables local people to benefit from the rainforest today but will not be available to future generations.	
0	C.	To use the rainforest in a way that local people will not benefit from today, but ensures the resource is available to future generations.	

	Which of the following are examples of		
59.	sustainable management of the		
	rair	nforest at the local level?	
0	Α.	Replanting	
0	В.	Selective logging	
0	С.	Agroforestry	
0	D.	Creating protected areas or reserves.	
	wn	ich of the following are examples of	
60.	sustainable management of the		
	rair	nforest at the national level?	
0	Α.	Creating protected areas or reserves.	
0	В.	Education	
0	С.	Debt reduction by HICs.	
0	D.	Stopping the abuse of the rainforest	
		by developers.	

	Which of the following are examples of			
61.	sustainable management of the			
	rair	rainforest at the international level?		
0	Α.	Inter-government agreements on		
0		hardwoods and endangered species.		
0	В.	Debt reduction by HICs		
0	C.	Conservation and education by NGOs		
0	D.	Creating protected areas or reserves.		

62.	Which local strategy for managing the tropical rainforest sustainably is described below? Felling trees only when they are fully grown, and letting younger trees mature and continue protecting the ground from erosion.	
0	Α.	Replanting
0	В.	Selective logging
0	C. Agroforestry	
0	D. Stopping illegal logging	

63.	Which local strategy for managing the tropical rainforest sustainably is described below? This strategy involves combining crops and trees. This avoids destroying the nutrient cycle.	
0	Α.	Replanting
0	В.	Selective logging
0	С.	Agroforestry
0	D.	Stopping illegal logging

indigenous people.OA.Creating protected areas or reserves.OB.EducationOC.Stopping the abuse of the rainforest by developers.	64.	Which national strategy for managing the tropical rainforest sustainably is described below? Stopping deforestation and development in designated areas of rainforest. This often occurs in areas settled by		
O     B.     Education       O     C     Stopping the abuse of the rainforest		ind	igenous people.	
Stopping the abuse of the rainforest	0	Α.	Creating protected areas or reserves.	
	0	В.	Education	
	0	C.		

65.	<ul> <li>Which national strategy for managing tropical rainforest sustainably is described below?</li> <li>Making subjects such as environmen</li> </ul>		
	studies a compulsory part of the school		
	curriculum.		
0	Α.	Creating protected areas or reserves.	
0	В.	Education	
0	C	Stopping the abuse of the rainforest	
	С.	by developers.	

	Wh	ich international strategy for
	ma	naging the tropical rainforest
	sus	tainably is described below?
66.		
	An	agreement to convert debt to a high-
	inc	ome country into a fund to protect
	lar	ge areas of tropical rainforest.
0	Α.	Inter-government agreements on
	А.	hardwoods and endangered species
0	В.	Conservation and education by NGOs
0	C.	Debt reduction by HICs

	W/b	ich international strategy for		
	Which international strategy for			
	managing the tropical rainforest			
	SUS	sustainably is described below?		
67	000			
67.				
	Agr	Agreements between governments		
	aim	aimed at protecting the biodiversity and		
	res	resources of the rainforest.		
0	^	Inter-government agreements on		
0	Α.	hardwoods and endangered species		
	<b>_</b>	Conservation and education by		
0	В.	NGOs		
0	C.	Debt reduction by HICs		

68.	What is the 2006 International Tropical		
	Tim	Timber Agreement an example of?	
0	А.	Inter-government agreements on	
		hardwoods and endangered species	
0	В.	Conservation and education by	
		NGOs	
0	C.	Debt reduction by HICs	

69.	<ul> <li>Which international approach involves:</li> <li>promoting the conservation message largely through education programmes in schools and colleges</li> <li>providing training for conservation workers</li> <li>providing practical help to make programmes more sustainable</li> <li>buying up threatened areas and create nature reserves.</li> </ul>		
0	А.	Inter-government agreements on hardwoods and endangered species	
0	В.	Conservation and education by NGOs	
0	C	Debt reduction by HICs	

70.	Which of the following is not a challenge that needs to be overcome to achieve a sustainable balance between protection and development in the tropical rainforest?		
0	A.	Some governments are not willing to do anything that risks slowing down the rate of economic development.	
0	В.	Some governments are unwilling to enforce monitoring laws aimed at protecting the rainforest.	
0	C.	There is a lot of corruption in the way forests are treated, such as bribes to allow illegal logging.	
0	D.	Making subjects, such as ecology or environmental studies, a compulsory part of the school curriculum.	

#### **Hot Deserts**

71.	Where are hot deserts located?	
0	•	Between 20° and 30° north and
0	Α.	south of the equator.
0	Б	Between 20° north and south of the
0	В.	equator.
0	6	Between 5° north and south of the
0	С.	equator.
0	D.	Between 5° and 10° north and south
		of the equator.

72.	Which of the following characterises the			
12.	clin	climate in the world's hot desert regions?		
0	Α.	Hot and dry rising air with less than		
		250 millimetres of rain annually.		
	В.	Hot and dry sinking air less than 250		
		millimetres of rain annually.		
0	C.	Hot and wet rising air less than 250		
		millimetres of rain annually.		
0	D.	Hot and wet sinking air less than 250		
		millimetres of rain annually.		

73.	Which of the following is not an example of hot desert?	
0	Α.	Australian
0	В.	Thar
0	C.	Sahara
0	D.	Taklamakan

74.		What are areas of land found on the borders of hots deserts known as?	
0	Α.	Semi-arid	
0	В.	Semi-horrid	
0	C.	Semi-fringe	
0	D.	Semi-detached	

75.	What can the diurnal temperature range		
	in a	in a desert exceed?	
0	Α.	35°C	
0	Β.	45°C	
0	С.	55°C	
0	D.	65°C	

76.	What causes the deep deposits of sand		
	and	and loose material in deserts?	
0	Α.	Weathering	
0	Β.	Erosion	
0	C.	Transportation	
0	D.	Deposition	

77.	True or false? Sand dunes should not be classified as soils if there is no organic matter present there at all.	
0	Α.	True
0	В.	False

78.	pot nut cale	e or false? Some desert soils are centially very fertile because important crients for plant growth, such as cium, have not been leached away er time.
0	Α.	True
0	Β.	False

70	What is the collective name given to		
79.	79. plants that can survive in very dry		
	conditions?		
0	Α.	Cacti	
0	В.	Epiphytes	
0	C.	Xerofites	
0	D.	Xerophytes	

80.	Which of the following are adaptations made by vegetation to survive the desert environment?	
0	Α.	Some plants have the majority of their biomass below the ground surface where temperatures are cooler
0	В.	Some plants have thick, waxy cuticles to reduce water loss through transpiration.
0	C.	Deserts bloom suddenly after rainfall so to complete their life cycle quickly.
0	D.	Plants have drip tips so water does not accumulate on leaves.
	•	
81.	How have acacia trees adapted to survive in the desert ecosystem? You can select more than one answer.	
0	Α.	They are fire resistant
	_	Deep roots, up to 50m which also

0	В.	Deep roots, up to 50m which also
		Deep roots, up to 50m which also reach out sideways.
0	C.	They have seeds that lie dormant for
		years between rains.
0	D.	Short, fat trunks that store excess
		water.

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82.	How have cacti adapted to survive in the desert ecosystem? You can select more than one answer.	
0	Α.	They are succulents, storing water in their tissues.
0	В.	Spikes deter consumers.
0	C.	Their small, waxy leaves reduce
		transpiration loss.
	D.	They have deep roots to absorb
		water deep in the soil.

83.		Which of the following is not an example of interdependence in a hot desert?	
0	А.	Vegetation roots stabilise sandy soils in semi-arid areas at the edges of deserts.	
0	В.	Links between different parts of the food web.	
0	C.	Soil erosion is reduced by vegetation holding soil together, especially on the edge of deserts.	
0	D.	It is home to thousands of other living organisms.	

84.	How is lichen able to survive in the desert			
04.	ecc	ecosystem?		
0	Α.	It chemically breaks down rock using		
U		organic acids.		
0	В.	It chemically breaks down organic		
0		material using organic acids.		
0	C.	It decomposes organic material.		
0	D.	It absorbs water from the		
		atmosphere.		

85.	Which of the following food chains would		
	not	not be found in the desert ecosystem?	
0	Α.	Grass $ ightarrow$ Kangaroo rat $ ightarrow$ Coyote	
	В.	Cactus $\rightarrow$ Grasshopper $\rightarrow$	
0		Roadrunner → Coyote	
0	C.	Cactus $\rightarrow$ Grasshopper $\rightarrow$ Scorpion	
		ightarrow Road runner $ ightarrow$ Coyote	
0	D.	Cactus → Grasshopper → Spider	
		Monkey → Coyote	

86.	Which of the following is not an animal adaptation to the desert ecosystem?		
	adaptation to the desert ecosystem?		
0	A.	Desert foxes have thick fur on the soles of their feet, protecting them	
		from the hot ground.	

0	В.	The light-coloured fur on the bodies of Desert foxes reflects sunlight and keeps them cool.
0	C.	Kangaroo rats do not need to drink water; they get it from food.
0	D.	Kangaroo rats stay in burrows at night due to the low temperatures.

87.	Which of the following are hot desert development opportunities? You can select more than one.	
0	A.	Agriculture, providing water can be found for irrigation through aquifers or canals.
0	В.	Mineral extraction such as copper, uranium, lead, zinc and coal.
0	C.	Energy, such as solar.
0	D.	Tourism

88.	une	ich of the following is not a reason for even development in the desert
	ecc	osystem?
0	Α.	It is difficult to adapt to the hot
		desert environment.
0	В.	Desert environments are very
		inaccessible.
0	C.	There is a low population density in
		deserts.
0	D.	Large areas of desert are protected
		from development.

89.	How have people adapted to the desert environment? (you can select more than one answer)	
0	Α.	Whitewashed buildings help reflect the sun.
0	В.	Water is extracted from aquifers.
0	C.	Slash and burn is a practiced form of farming.
0	D.	Irrigation is used to enable farming.

90.	What is desertification?	
0	Α.	The process of land transforming from desert to fertile land.
0		from desert to fertile land.
0	В.	The process of rock breaking down in
		situ.
0	C.	The process by which land changes
		into desert.

0	The process by which land wears away by the action of the sea, sand
	or river.

91.	Wh	Which is the desert fringe also known as?	
0	Α.	Semi-deserts	
0	В.	Semi-arid area	
0	С.	Drylands	
0	D.	All of the above	

92.	True or false? At the borders of hot deserts, desert fringe areas support greater biodiversity and larger plants.	
0	Α.	True
0	В.	False

93.	True or false? Despite their higher rainfall, desert fringes are classified, alongside hot deserts, as fragile environments.	
0	Α.	True
0	Β.	False

94.	Which of the following statements is true?	
0	Α.	We do not know whether global warming caused by humans will create even greater rainfall deficiencies in the Sahel or other desert fringes.
0	В.	Global warming is directly responsible for desertification in the Sahel and other desert fringes.
0	C.	Desertification in the Sahel is only occurring because of natural fluctuations in rainfall.
0	D.	Desertification in the Sahel and other desert fringes because of human action.

95.	Which of the following statements is not			
95.	a h	a human cause of desertification?		
0	Α.	Population growth		
0	В.	Overgrazing by cattle		
0	C.	Deforestation for fuel and		
		constructing shelter		
0	D.	Cyclical drought bringing lower and		
		less reliable rainfall		

96.	True or false? Bunds are a low-tech solution to reducing soil erosion and desertification.	
0	Α.	True
0	В.	False

97.	Which of the following are techniques that can be used to tackle desertification?	
0	Α.	Tree-planting schemes to bind and protect the soil.
0	В.	Planting grass on slopes to help stabilise the topsoil and building small rock dams to trap rainwater in gullies.
0	C.	Building terraces (flattened sections with a retaining wall) on farmed slopes.
0	D.	All of the above

Which of the following is an attempt to		
tackle desertification in the Sahel, Africa?		
Α.	Green Door	
Β.	Green Wall	
C.	Green Wing	
D.	Green Goblin	
	tac A. B.	

99.	Technology that is suited to the needs, skills, knowledge and wealth of local people in the environment where they live which incorporates simple ideas with cheap and available materials is known as what?	
0	Α.	Appropriate technology
0	В.	Intermediate technology
0	С.	Both of the above

100.	True or false? Efficient stoves are an	
100.	exa	ample of appropriate technology.
0	Α.	True
0	В.	False

### **Cold Environments**

71.	Where are cold environments mainly		
	located?		
		66.5° north and south of the equator	
0	Α.	along with mountainous areas such	
		as the Himalayas and the Alps.	
	В.	66.5° north and south of the	
		equator.	
	C.	Between 66.5° north and south of	
0		the equator.	
	D.	Between 5° and 10° north and south	
		of the equator.	

72.	Which of the following characterises the climate in the world's cold environments?	
0	Α.	Very low temperatures of short periods of time.
0	В.	Very low temperatures for long periods of time.
0	C.	Very low temperatures every 2-3 years.
0	D.	Places where temperatures are well below freezing all year.

73.	Which of the following are examples of cold environments?	
0	Α.	Polar and tropical rainforest
0	В.	Polar and tundra
0	C.	Tundra and tropical rainforest
0	D.	Tundra and savannah

74.		What are extreme cold environments known as?	
0	Α.	Polar	
0	В.	Tundra	
0	С.	Polar tundra	
0	D.	Tundra polar	

75.	What is the name of the cold environment that borders the polar region?	
0	Α.	Polar
0	Β.	Tundra
0	С.	Polar tundra
0	D.	Tundra polar

76.		Which type of cold environment has the		
	gre	greatest temperature range?		
0	Α.	Polar		
0	В.	Tundra		
0	C.	Neither		
0	D.	They are both the same		

77.	True or false? Some cold environments experience less harsh conditions during summer enabling life to thrive.	
0		True
0	Β.	False

78.	Which of the following statements best		
	describe soil in cold environments?		
0	A.	Tundra soils are almost non-existent unless they were formed under past climatic conditions. Polar soils are typically thin and not particularly fertile. They are often frozen in the winter.	
0	В.	Polar soils are almost non-existent unless they were formed under past climatic conditions. Tundra soils are typically thin and not particularly fertile. They are often frozen in the winter.	

79.	What is permanently frozen land in cold environments known as?	
0	Α.	Frost
0	В.	Permafrost
0	C.	Perrofrost
0	D.	Jackfrost

	\\/h	hich of the following are adaptations	
80.	Which of the following are adaptations made by vegetation to survive cold		
	env	vironments?	
		Deep root systems to access water	
		and nutrients deep below the	
0	A.	surface in the active layer. Low	
	Γ.	growing 'cushion' plants retain	
		moisture and shelter from strong	
		drying winds.	
		Deep root systems to access water	
		and nutrients deep below the	
0	В.	surface in the active layer. High	
Ŭ	0.	growing 'cushion' plants retain	
		moisture and shelter from strong	
		drying winds.	
	C.	Shallow root systems to access	
		water and nutrients close to the	
0		surface in the active layer. High	
Ŭ		growing 'cushion' plants retain	
		moisture and shelter from strong	
		drying winds.	
		Shallow root systems to access water	
	D.	and nutrients close to the surface in	
0		the active layer. Low growing	
		'cushion' plants retain moisture and	
		shelter from strong drying winds.	

81.	but	How have flowering plants such as the buttercup and Arctic poppy adapted to		
	sur	survive in cold environments?		
0	Α.	They have deep roots to reach		
		water.		
	В.	They have a rapid life cycle which		
0		means they can flower and seed		
		quickly during the short summers.		
	C.	They have wide buttress roots to		
		store water.		
0	D.	Short, fat trunks that store excess		
		water.		

82.	True or false? Mosses are not found in cold environments because they cannot cope with waterlogged conditions in summer.	
0	Α.	True
0	Β.	False

83.	Which of the following is not an example of interdependence in a cold environment?	
0	А.	Indigenous people depend on animals such as seals for food, clothing and oil.
0	В.	Plants form dense cushions on the ground to retain moisture and heat.
0	C.	The bearberry has bright red berries to encourage birds such as owls to eat them and disperse the seeds.
0	D.	Vegetation roots stabilise sandy soils

84.	True or false? In polar regions food chains are short and food webs very basic.	
0	Α.	True
0	Β.	False

85.	Which food chain below is typical of a			
	pol	polar region?		
0	Α.	Grass → Kangaroo rat → Coyote		
0	В.	Arctic lichen $\rightarrow$ Musk Ox $\rightarrow$ Tundra		
		Wolf		
0	C.	Krill → Fish → Penguin		
0	D.	Arctic willow $\rightarrow$ Arctic hare $\rightarrow$ Artic		
		fox → Tundra Wolf		

86.	Which food chain below is typical of a tundra region?	
0	Α.	Grass → Kangaroo rat → Coyote
0	В.	Krill → Fish → Seals → Whale
0	C.	Krill $\rightarrow$ Fish $\rightarrow$ Penguin
0	D.	Arctic willow $\rightarrow$ Arctic hare $\rightarrow$ Artic
		fox → Tundra Wolf

87.	Which of the following is not an animal			
07.	adaptation to a cold environment?			
		Arctic foxes have thick fur on their		
0	Α.	bodies and the soles of their feet,		
	А.	protecting them from the hot		
		ground.		
	В.	Arctic foxes have thick fur on their		
0		bodies and the soles of their feet,		
		protecting them from the cold.		
	C.	Musk oxen have wide hooves to		
0		enable them to walk on snow or		
		waterlogged land.		
	D.	Arctic hares have white fur which		
	D.	provides good camouflage.		

88.	Which of the following is not a risk to biodiversity in cold environments?	
0	Α.	Climate change leading to longer,
Ŭ	Ζ.	warmer summers.
		Melting permafrost releases carbon
0	В.	in the atmosphere enhancing the
		greenhouse effect.
	C.	Increased resource exploitation of
0		arctic regions (e.g. oil extraction)
		may cause pollution and have a
		negative impact on the ecosystem.
	D.	Conservation groups such as the
0		WWF supporting governments,
		businesses and local people in
		protecting biodiversity.

		Which of the following are hot desert		
89.	dev	development opportunities? You can		
	sele	select more than one.		
0	Α.	Mineral extraction e.g. gold.		
0	В.	Energy, through extracting oil and		
		coal.		
0	С.	Fishing e.g. salmon in Alaska's rivers.		
0	D.	Tourism, particularly cruises.		

90.	Which of the following is not a reason for uneven development in the desert	
	ecc	psystem?
0	A.	It is difficult to adapt to the extreme
0	А.	temperature.
0	В.	Cold environments are often very
U		inaccessible.
0	C.	There is a low population density in
		cold environments.
	D.	Constructing and the provision of
0		services is easy to provide in cold
		environments.

91.	How have people adapted to cold environments? (you can select more than one answer)		
0	А.	<ul> <li>A. gatherers as they are unable to grow crops.</li> </ul>	
0	B. Water is extracted from aquifers.		
0	C. Slash and burn is a practiced form of farming.		
0	D. animal skins and live in insulated houses.		

92.	What is a wilderness area?	
	Α.	A natural area of land protected
0		from human development.
	В.	A remote part of the world that has
0		been developed by humans for
		economic benefits.
	C.	A remote part of the world that is
0		unspoilt by human development,
		remaining natural and undisturbed.
0	D.	A remote part of the world that is
0		spoilt by human development.

	True or false? Many of the world's cold		
93.	environments can be considered		
	wilderness areas.		
0	Α.	True	
0	В.	False	

	Wh	hich of the following are reasons for		
94. pr		otecting cold environment wilderness		
	are	as? (you can select more than one)		
		They are fragile environments and		
0	Α.	take a significant amount of time to		
		recover from damage.		
	Some areas are inhabited by			
0	В.	indigenous people whose culture		
		and survival depend on protecting		
		the natural world.		
		Cold environments provide		
0	C.	important habitats for many living		
		organisms.		
	D.	There is a moral duty to protect		
		these environments.		

95.	Which of the following is not an example of how technology been used to solve some of the challenges of oil extraction in Alaska?		
0	A.	<ul><li>A. Insulated to retain the heat of oil and avoid melting permafrost.</li></ul>	
0	B. The pipeline is raised above the ground to avoid disturbing natural migration routes of animals such as caribou.		
0	C. Special slides allow the pipeline to move during earthquakes.		
0	<ul><li>The pipeline has been constructed</li><li>D. a way that oil flows freely without the need for pumping stations.</li></ul>		

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96.	Which of the following is an example of an International agreement to protect Antarctica, the world's last great wilderness?		
0	Α.	A. The Antarctic Treaty	
0	B. The Arctic Treaty		
0	C.	The Antarctic International	
		Agreement	
	D.	The Antarctic International	
0		Protection Agreement	

97.	Which of the following is not included in the treaty that protects Antarctica?		
0 A.		All military activities are banned	
0	В.	The disposal of nuclear waste is	
		banned	
0	C.	The promotion of International	
0		cooperation in scientific research	
0	D.	The total ban of tourism in	
		Antarctica.	

	True or false? The US government has		
98.	been involved in the protection of Alaska		
	since oil was found in the 1960s.		
0	A. True		
0	В.	False	

	Wh	What is the name of the protected area		
99.	of l	of land in northern Alaska that protects		
	the	the area from oil and gas developments?		
0	Α.	A. Northern Arctic Reserve		
0	В.	Western Arctic Reserve		
0	С.	C. Eastern Arctic Reserve		
0	C.	C. Southern Arctic Reserve		
	True or false? Conservation groups are			
	actively involved in developing			

100.	actively involved in developing strategies for maintaining cold environments.		
0	Α.	True	
0	B. False		

Answers	43 - D	87 – A, B, C and D
Allowers	44 - B	88 - D
1 - A	45 - C	89 – A, B and D
2 - A	46 - A	90 - C
3 - C	47 - A	91 - D
4 - A	48 - B	92 - A
5 - B	49 - C	93 - A
6 - D	50 - D	94 - A
7 - A	51 - A	95 – D
8 - D	52 - A	96 - A
9 - A	53 - C	97 - B
10 - C	54 – A & C	98 - B
11 - C	55 - A	99 - C
12 - C	56 - B	100 - A
13 - D	57 – B & D	
14 - A	58 - A	Cold Environments
15 - D	59 – A, B & C	71 - A
16 - A	60 - A, B and D	72 - B
17 - B	61 - D	73 - B
18 - C	62 - B	74 - A
19 - A	63 - C	75 - B
20 - В	64 - A	76 – B
21 - A	65 - B	77 - A
22 - D	66 - C	78 - B
23 - A	67 - A	79 - B
24 - C	68 - A	80 – D
25 - A	69 - B	81 – B
26 - D	70 - D	82 – B
27 - C		83 - D
28 – B - Emergents are the	Hot Deserts	84 - A
tallest trees and are usually	71 - A	85 - C
over 50 metres tall	72 - B	86 - D
29 - A	73 - D	87 – A
30 - B	74 - A	88 - D
31 - A	75 - A	89 – A, B, C and D
32 - B	76 – A	90 – D
33 - A	77 - A	91 – A & D
34 - B	78 - A	92 - C
35 - A	79 - D	93 - A
36 - C	80 – A, B and C	94 - A - D
37 - C	81 – A, B and D	95 – D
38 - D	82 – A, B, C	96 - A
39 - A	83 - C	97 - D
40 - A	84 - A	98 - A
41 - A	85 - D	99 - B
42 - A	86 - D	100 - A