Test: Ecology NCE - HS	
Question 1 of 75	
Specialized bacteria and blue-green algae are capable of what ammonia producing process?	
Oxygen fixation	
○ B) Nitrogen fixation	
○ C) Haber Process	
OD) Ostwald Process	
Question 2 of 75	
On land, over 90% of the water reaches the atmosphere through what process that begins on the surfaces of plants?	
OA) Turgor pressure	
OB) Cavitation	
OC) Ablation	
OD) Transpiration	
Question 3 of 75	
What London born primatologist is best remembered for her contributions to studying chimpanzees at Gombe National Park?	
A) Tracy Perkins	
◯ B) Tina Atlas	
○ C) Diane Waterman	
OD) Jane Goodall	

Question 4 of 75		
	What t	terrestrial biome is separated into "dry forests" and "rainforests"?
	(A)	Amazonia Forests
	○ B)	Everglade Forests
	(C)	Taiga Forests
	(D)	Tropical Forests
	Ques	stion 5 of 75
	What a	author wrote about the dangers of DDT in Silent Spring?
	() A)	Cole Whitehead
	○ B)	Rachel Carson
	(C)	Leah Smithson
	(D)	Trystan McMann
	Ques	stion 6 of 75
	What i	is the capacity of systems both natural and human cultured to survive and flourish?
	() A)	Perseverance
	○ B)	Lockwood Limit
	(C)	Sustainability
	(D)	Limiting Capacity
	Ques	etion 7 of 75
		ountries Bolivia, Chile, and Argentina have about 80% of the global reserves of what nt which is used in rechargeable ion batteries?
	(A)	Tungsten
	(B)	Lithium
	(C)	Oxygen
	(D)	Helium

Que	stion 8 of 75
What	geographical feature releases molten rock from the Earth's interior?
(A)	Volcano
○ B)	Crater
(C)	Geyser
(D)	Mountain
Que	stion 9 of 75
What	fractures in the Earth's crust can suddenly break causing an earthquake?
(A)	Crack line
(B)	Carper
(C)	Creep
(D)	Fault
Que	stion 10 of 75
Which	n of the following is a technique for conserving soil resources and fertility?
(A)	Crop elevation
(B)	Crop rotation
(C)	Crop microing
(D)	Crop rocking
Que	stion 11 of 75
What	campaign symbol had a slogan that "Only YOU can prevent forest fires."?
(A)	Lenny the Alligator
○ B)	Smokey the Bear
(C)	Sammy the Deer
(D)	Happy the Hippo

Question 12 of 75
What term refers to behavior that results in one species preying another?
OA) Symbiosis
OB) Predation
OC) Hunting
OD) Parasitism
Question 13 of 75
What kind of species maintains the health of many surrounding species in the same environment and whose extinction may dramatically alter the function and structure of a community?
OA) Impact species
OB) Critical species
C) Keystone species
OD) Indicator species
Question 14 of 75
An interaction that benefits one species with little to no impact on the other species is?
OA) Parasitism
○ B) Free Rider
○ C) Mutualism
OD) Commensalism
Question 15 of 75
What term refers to the increase in concentration of toxins while moving higher up the food chain?
○ A) Biomagnification
○ B) Food Chain Regression
C) Food Chain Multiplier
OD) Toxin Amplification

	stion 16 of 75
What	national park in Tanzania is famed for its Wildebeest migration?
(A)	Serengeti National Park
(B)	Big Bend National Park
() C)	Lake Malawi National Park
(D)	Golden Gate Highlands National Park
Que	stion 17 of 75
Which	n of the following is a symbiotic relationship between algae and fungi?
(A)	Mitkan
(B)	Aotlan
(C)	Eopen
(D)	Lichen
Que	stion 18 of 75
Which	n of the following is an example of biological control?
() A)	IntroducingÊ beavers to produce natural dams on rivers
(B)	Introducing parasitic wasps to combat aphid population
(C)	Building a physical barrier such as a fence to prevent migration
_	Reintroducing wolves to isle royale after a plummet in population
(D)	Reintroducing wolves to isle royale after a plummet in population stion 19 of 75
Que	
Que	stion 19 of 75 n of the following is an example of mutualism?
Que Which	stion 19 of 75 n of the following is an example of mutualism? Badgers and snakes
Que Which	stion 19 of 75 n of the following is an example of mutualism? Badgers and snakes Anemones and clownfish

Ques	stion 20 of 75
	number refers to the amount of a population an environment can sustain given ble resources?
(A)	Limiting Capacity
○ B)	Survivability Capacity
(C)	Potential limit
O D)	Carrying Capacity
Ques	stion 21 of 75
What	s the name of water bearing surfaces found in the ground?
(A)	Aquifers
○ B)	Aqueducts
(C)	Reservoirs
O D)	Drains
Ques	stion 22 of 75
In trop	ical rainforests, what strata is highest in height?
(A)	Emergent layer
○ B)	Under story
(C)	Canopy
(D)	Shrub layer
Ques	stion 23 of 75
	rood Rowland and Mario Molina were among the scientists that demonstrated what res were harmful to the environment and depleting the ozone layer at the south pole?
() A)	CFCs
○ B)	CFDs
(C)	CFBs
(D)	CFQs

Ques	tion 24 of 75
	collection of marine debris is actually two distinct collections bounded by the sake ocean's subtropical gyre?
() A)	Great Atlantic Garbage Patch
○ B)	Great Indian Garbage Patch
(C)	Great Pacific Garbage Patch
(D)	Great Arctic Garbage Patch
Ques	tion 25 of 75
What t	erm refers to a dry area on the leeward side of a mountainous area?
(A)	Sun shade
(B)	Rain shade
(C)	Sun shadow
(D)	Rain shadow
Ques	tion 26 of 75
What I	piome can be typed into Meadows, Steppes, and Savannahs?
() A)	Tundra
○ B)	Taiga
(C)	Woodlands
(D)	Grasslands
Ques	tion 27 of 75
What ı	mammals lay eggs rather than bearing their young in the womb?
() A)	Nectators
(B)	Allotremes

C) MonotremesD) Polytremes

Ques	ation 28 of 75
What i	insect is suffering from an abnormal disappearance known as colony collapse er?
(A)	Mosquitos
○ B)	Ants
(C)	Honey Bees
O D)	Dragon flies
Ques	stion 29 of 75
	type of species is characterized by high growth rate, producing many offspring with low collity of survival?
(A)	m-selection
(B)	r-selection
(C)	k-selection
O D)	b-selection
Ques	stion 30 of 75
	set of nonlinear differential equations initially developed in 1910 for use in chemistry is sed to model predator prey relationships?
(A)	Hulst-Trystan
○ B)	Fare-Mallus
(C)	Terram-Molllow
O D)	Lotka-Volterra
Ques	stion 31 of 75
	country from 2016-2020 has had the largest ecological footprint per capita and runs a pacity deficit of -14.14?
(A)	Luxembourg
(B)	Kuwait
(C)	United States
(D)	China

Ques	stion 32 of 75
What	sort of substances are classified as either point source or non-point source?
(A)	Carcinogens
○ B)	Pollutants
(C)	Clathrates
(D)	Greenhouse gases
Ques	stion 33 of 75
Evapo	oration, transpiration, runoff, condensation, and precipitation are all part of what cycle?
() A)	Hygrolic cycle
○ B)	Hypergolic cycle
(C)	Hydrologic cycle
(D)	Hydrolitic cycle
Ques	stion 34 of 75
What _l	process refers to gradual change in species composition in a given area?
() A)	Ecological Evolution
○ B)	Ecological Progression
(C)	Ecological Succession
(D)	Ecological Revolution
Ques	stion 35 of 75
	rate can be measured at a "replacement level" to determine the average number in eneration needed to replace the previous generation?Ê
(A)	Death rate
○ B)	Birth rate
(C)	Hand-off rate
(D)	Fertility rate

Question 36 of 75	
What three staple foods make up two-thirds of the world's food energy intake?	
OA) Nuts, beans, wheat	
○ B) Wheat, corn, and rice	
○ C) Meat, fruits, wheat	
OD) Corn, rice, and beans	
Question 37 of 75	
Which of the following is a class of microscopic photosynthetic algae, protists, and bacteria?	
OA) Phytoflagellates	
OB) Phytolindos	
OC) Phytoplankton	
OD) Phytodoms	
Question 38 of 75	
What term refers to all animal life in a particular region?	
OA) Flora	
OB) Zoota	
OC) Biota	
OD) Fauna	
Question 39 of 75	
What is the biggest dam in the United States?	
A) Thief Valley Reservoir	
○ B) Hoover Dam	
○ C) International Falls Dam	
◯ D) Glen Canyon Dam	

(Question 40 of 75		
		activity is principally responsible for degradation and destruction of 58% of the world's all sea-grass beds?	
() A)	Dredging	
() B)	Mining	
() C)	Surfing	
() D)	Scuba diving	
	Ques	tion 41 of 75	
-	Γhe w	orld's largest hydroelectric dam sits on a river in what country?	
() A)	Mexico	
() B)	United States	
() C)	India	
() D)	China	
	Ques	tion 42 of 75	
E	Egrets	and Bitterns are members of what class of birds?	
() A)	Herons	
() B)	Cranes	
() C)	Ibises	
() D)	Storks	
(Ques	tion 43 of 75	
\	Vhat :	state is the Petrified National Forest in?	
() A)	Alaska	
() B)	Oregon	
() C)	Arizona	
) D)	Minnesota	

Question 44 of 75	
Maasa	ai Mara National Reserve is located in what country?
(A)	EthiopiaÊ
○ B)	Kenya
(C)	Uganda
(D)	Somalia
Ques	stion 45 of 75
Hump	back whales are known to jump out of the water, a behavior known by what term?
() A)	Posing
○ B)	Breaching
(C)	Sailing
(D)	Arching
Ques	stion 46 of 75
	of the following is a term to describe the migratory pattern of birds between their ing grounds and winter holdings?
(A)	Fly path
○ B)	Flight path
(C)	Flight line
O D)	Flyway
Ques	stion 47 of 75
What	zoo opened in 1889 is a part of the Smithsonian Institute?
(A)	Chester Zoo
(B)	National Zoo
() C)	The American Zoo

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Question 48 of 75		
Who argued that famine, plague, and war would result if limits on birth weren't imposed i "Essay on the Principle of Population"?		
OA) John Stuart Mill		
○ B) Adam Smith		
C) Thomas Malthus		
OD) David Ricardo		
Question 49 of 75		
What environmental phenomenon occurs due to addition or loss of a top predator in a food chain?		
A) Autic response		
○ B) Trophic cascade		
C) Locotic cascade		
OD) Regeneration response		
Question 50 of 75		
What English naturalist proposed the theory of evolution independently of Charles Darwin?		
A) Francis Drake		
○ B) Samuel Fairchild		
C) Alfred Russel Wallace		
OD) David Kensington		
Question 51 of 75		
What form of mimicry sees two species share an honest signal that they are dangerous to eat?		

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A) Redandian mimicry

□ B) Argonian mimicry□ C) Batesian mimicry□ D) M□llerian mimicry

Question 52 of 75

What climate classification system uses three letters to designate a climate based on climate group, seasonal precipitation, and temperature?			
(A)	Sanchez classification		
○ B)	Miller classification		
(C)	K□ppen classification		
O D)	Ramboud classification		
Ques	tion 53 of 75		
What term refers to how species differences are accentuated in areas where they co-occur and are minimized otherwise?			
(A)	Character displacement		
○ B)	Geographic accenting		
(C)	Adaptive radiation		
O D)	Feature trading		
Ques	tion 54 of 75		
What term describes the advertising an animal does to avoid being attacked or eaten?			
(A)	Warning signalling		
○ B)	Trait Wrenching		
(C)	Malocatism		
O D)	Aposematism		
Ques	tion 55 of 75		
	oceanic circulation sometimes referred to as "the earth's conveyor belt" is driven by rature and salinity induced density differences between water masses?		
() A)	Thermohaline circulation		
○ B)	Adiabatic Halide Circulation		
(C)	Ignosaline circulation		
(D)	Halocaloric circulation		

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What hypothesis proposed by James Lovelock and Lynn Margulis suggests that our planet's biosphere acts like a self-regulating organism?				
(A)	Trestle hypothesis			
(B)	SRE hypothesis			
(C)	Living Earth hypothesis			
(D)	Gaia hypothesis			
Ques	tion 57 of 75			
Polar the ye	regions are home to what thick subsurface layer of soil that remains frozen throughout ar?			
() A)	Permafrost			
○ B)	SupraiceÊ			
(C)	Superfrost			
O D)	Overice			
Ques	tion 58 of 75			
What "anti-trade" winds exist in the middle latitudes between 30 and 60 degrees latitude?				
(A)	Easterlies			
(B)	Undercoast winds			
(C)	Westerlies			
(D)	Overcoast winds			
Ques	tion 59 of 75			
John N	Muir helped found and establish which club that promotes environmental preservation?			
() A)	Oak Hills Club			
○ B)	Sierra Club			
() C)	Canyon Club			
(D)	Wildlife Protection Club			

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What classification is given to fish that migrate from the sea up to freshwater to spawn, such as salmon and the sea lamprey?Ê	
OA) anergic	
OB) Catanergic	
OC) anadromous	
OD) catadromous	
Question 61 of 75	
To calculate the age of the earth, you could use the formation rate of zircon crystals and the radioactive decay rate of Uranium isotopes into what element as a proxy?	
A) Plutonium	
OB) Lead	
C) Chlorine	
OD) Arsenic	
Question 62 of 75	
What form of	
What form of	
What form of A) Allopatric speciation	
What form of A) Allopatric speciation B) Sympatric speciation	
What form of A) Allopatric speciation B) Sympatric speciation C) Isotoric speciation	
What form of A) Allopatric speciation B) Sympatric speciation C) Isotoric speciation D) Aleatoric speciation	
What form of A) Allopatric speciation B) Sympatric speciation C) Isotoric speciation D) Aleatoric speciation Question 63 of 75 What zone refers to the bottom surface of a lake environment as opposed to the open	
What form of A) Allopatric speciation B) Sympatric speciation C) Isotoric speciation D) Aleatoric speciation Question 63 of 75 What zone refers to the bottom surface of a lake environment as opposed to the open water?	
What form of A) Allopatric speciation B) Sympatric speciation C) Isotoric speciation D) Aleatoric speciation Question 63 of 75 What zone refers to the bottom surface of a lake environment as opposed to the open water? A) Littoral Zone	

Question 64 of 75			
What hard form of coal has high heat content and low sulfur content and is made by pressurizing bituminous coal?			
OA) Lignite			
OB) Diamond			
OC) Peat			
OD) Anthracite			
Question 65 of 75			
Which of the following is a small rodent usually found in tundra biomes?			
OA) Squirrels			
OB) Mopos			
OC) Teeters			
OD) Lemmings			
Question 66 of 75			
Branching complexity of a river is measured by what number?			
A) Cromer number			
○ B) Wallace number			
C) Strahler number			
OD) Geoffrey number			
Question 67 of 75			
What drilling rig's MODU (Mobile Offshore Drilling Unit) was drilling oil for BP before an explosion and fire caused a massive oil spill in the Gulf of Mexico?			
A) Dive Exploration			
○ B) Offshore Express			
C) Plunge Skyline			
OD) Deepwater Horizon			

Question 68 of 75				
What is the principal vegetation of the Kalahari desert?				
OA) Linden				
OB) Calico				
OC) Acacia				
OD) Megaria				
Question 69 of 75				
What ecosystems consist of the thin strips of vegetation along streams or rivers?				
OA) Terraria zones				
B) Flourish zones				
C) Aquata zones				
OD) Riparian zones				
Question 70 of 75				
What seed dispersal technique relies on wind as a vector, such as the spreading of dandelion seeds?				
A) Allochory				
◯ B) Blastochory				
C) Ballochory				
OD) Anemochory				
Question 71 of 75				
Temperate shrubland found along coastal California is a biome referred to with what basquerived name?				
OA) Hortilli				
◯ B) ArrosaÊ				
C) Chaparral				
OD) Arboral Plains				

Question 72 of 75			
The hanging vines in tropical rain forests are known by what name?			
OA) Tartle			
OB) Zeem			
○ C) Lianas			
OD) Kudzu			
Question 73 of 75			
Who advocated the idea of a "land ethic" in his non-fiction book A Sand County Almanac?			
A) Aldo Leopold			
○ B) Van Jefferson			
C) Timothy Etzkorn			
OD) Hugh McVey			
Question 74 of 75			
What British scientist is often called the "father of modern ecology" and was the first scientist to describe the paradox of the plankton?			
A) Trevor Treewater			
○ B) Tracy Smith			
C) Evelyn Hutchinson			
OD) Edward Falken			
Question 75 of 75			
Which of the following is a proposed negative feedback loop between marine biota and climate?			
OA) CLAW hypothesis			
OB) DRAW hypothesis			
C) LAW hypothesis			
OD) MAW hypothesisÊ			