Test: Earth Science NCE - HS

Questi	on 1 of 75
What teti	rahedral hydrocarbon is the second most abundant greenhouse gas?
() A) B	Butane
○B) N	litrous Oxide
(C) (C	Carbon Dioxide
OD) N	Methane Methane
Questi	on 2 of 75
What is t	the name of a tornado occurring over water?
A) W	Vaterspout
○B) W	Vaternado
OC) W	Vater tower
OD) H	Hurricane
Questic	on 3 of 75
Which of	f the following is an ore for iron?
() A) H	Hematite
○B) B	Bauxite
(C) (3	Galena
OD) II	menite
Questi	on 4 of 75
What is t	the study of rocks called?
A) Ig	gneology
○B) S	Stonology
(C) P	Petrology
OD) N	/linerology

Question 5 of 75	
Which Earth?	geologic period had a namesake "explosion" in the variety and amount of life on?
(A)	Permian
○ B)	Cambrian
(C)	Devonian
(D)	Ordovician
Ques	stion 6 of 75
	process that occurs at convergent plate boundaries involves a dense tectonic plate g below another plate and being pulled into the mantle?
(A)	Convection
○ B)	Subduction
(C)	Strike-slip fault
O D)	Seafloor Spreading
Ques	stion 7 of 75
Which mineral was used in watches because it exhibits piezoelectricity, meaning an electric charge due to mechanical stress?	
(A)	Fluorite
○ B)	Calcite
(C)	Apatite
O D)	Quartz
Ques	stion 8 of 75
Karst	topography is associated with which of the following?
(A)	Numerous moraines, tarns, and eskers
○ B)	Deposits of limestone and large numbers of caves
(C)	Mountains created by the movement of tectonic plates
(D)	The highest snowfall amounts in the 48 contiguous states

Ques	etion 9 of 75
The lo	west point on a land surface not covered by liquid water can be found where?
(A)	Under a glacier in Antarctica
○ B)	Ngorongoro Crater
(C)	Death Valley
(D)	The shores of the Dead Sea
Ques	tion 10 of 75
Orogra	aphic lifting results in which of the following?
(A)	The creation of drumlins
(B)	The lowest air pressures recorded on earth
(C)	Adiabatic cooling in air masses
(D)	Hills being raised up from a valley floor
Ques	tion 11 of 75
Isosta	tic rebound can result when which of the following events occurs?
(A)	Mines are dug
(B)	Meteorites strike
(C)	Volcanoes erupt
(D)	Glaciers retreat
Ques	tion 12 of 75
What I	olack volcanic glass forms from the rapid cooling of lava?
() A)	Pumice
(B)	Granite
(C)	Scoria

Obsidian

Question 13 of 75

_	Though not in Tornado Alley, which of these four states experiences far more tornadoes in an average year than the other three states combined?		
(A)	Alaska		
○ B)	New York		
(C)	Oregon		
(D)	Alabama		
Ques	tion 14 of 75		
June 1	-November 30 corresponds to which of the following periods?		
() A)	An annual upsurge in volcanism in Yellowstone National Park		
○ B)	The perihelion of the earth		
() C)	The seven months during which almost all tornadoes occur in the USA		
(D)	The Atlantic Ocean hurricane season		
Ques	tion 15 of 75		
	edge of the continent is submerged under the ocean descends to a break then to the ental slope?		
(A)	Continental wall		
(B)	Continental shelf		
(C)	Continental sliding		
(D)	Continental cliff		
Ques	tion 16 of 75		
What r	nineral class do Feldspar and Quartz fall under?		
(A)	Sulfides		
(B)	Silicates		
(C)	Carbonates		
(D)	Oxides		

Que	Question 17 of 75	
Whic	h of the following is the hardest material?	
(A)	Talc	
○ B)	Corundum	
(C)	Diamond	
(D)	Copper	
Que	stion 18 of 75	
What	lines mark areas of equal pressure on a weather map?	
(A)	Isochores	
○ B)	Isotemps	
(C)	Isoroles	
(D)	Isobars	
Que	stion 19 of 75	
Aster	oids begin burning up in what layer of the atmosphere below the thermosphere?	
(A)	Mesosphere	
○ B)	Troposhere	
(C)	Stratosphere	
(D)	Exosphere	
Que	stion 20 of 75	
Whic	h of the following is not a step in the nitrogen cycle?	
(A)	Assimilation	
○ B)	Convergence	
(C)	Ammonification	

Question 21 of 75	
Rocks that have high silica content are classified as what?	
OA) Ultramafic	
OB) Felsic	
C) Intermediate	
OD) Mafic	
Question 22 of 75	
Which of Steno's laws states that surface layers of rock are younger than deeper rock layers?	
A) Law of cross-cutting relationships	
○ B) Law of original horizontality	
C) Law of lateral continuity	
OD) Law of superposition	
Question 23 of 75	
What is a type of wind-deposited sediment?	
OA) Loam	
OB) Spline	
C) Loess	
OD) Hex	
Question 24 of 75	
Which of the following was an early irrigation device?	
OA) Euler diverter	
○ B) Abbasid wheel	
C) Archimedes' screw	
OD) Democritus' transporter	

Question 25 of 75		
Harry Hess described what process that creates new oceanic crust?		
A) Abyssal extension		
○ B) Seafloor spreading		
C) Benthic opening		
OD) Crustal movement		
Question 26 of 75		
What type of fog forms when warm, moist air moves over the ground?		
A) Convection		
○ B) Precipitation		
C) Radiation		
OD) Advection		
Question 27 of 75		
Lucy was a member of what genus of hominins?		
A) Paranthropus		
○ B) Australopithecus		
C) Homo		
OD) Pan		
Question 28 of 75		
What process results in the creation of mountains?		
A) Creogeny		
B) Pleiogenesis		
OC) Mounogenesis		
OD) Orogeny		

Question 29 of 75	
What `	Yellowstone Park geyser is named for its predictable eruptions?
(A)	Old Reliable
○ B)	Young Faithful
(C)	Young Reliable
(D)	Old Faithful
Ques	stion 30 of 75
Which York?	of these is something that can be seen or experienced each year in the state of New
() A)	Chinook winds
○ B)	The world's highest tides
(C)	The constellation crux
O D)	Lake effect snow
Ques	stion 31 of 75
A limn	ic eruption takes place when which of the following occurs?
(A)	Toxic gases are released from a lake
○ B)	Pyroclastic flows overwhelm all vegetation
(C)	Magma is released slowly from a shield volcano
(D)	A caldera collapses
Ques	stion 32 of 75
Sunny	skies are most associated with which of these types of clouds?
(A)	Stratus
(B)	Nimbostratus
(C)	Cumulus
(D)	Cumulonimbus

Q	Question 33 of 75	
Sa	apph	ires and rubies are two gem varieties of which material?
	A)	Graphite
	B)	Quartz
	(C)	Corundum
	D)	Humus
Q	ues	tion 34 of 75
		ost powerful hurricane ever recorded, Hurricane Patricia, at its peak had maximum ned winds of what intensity?
C	A)	155 mph
	B)	300 mph
	(C)	215 mph
	D)	100 mph
Q	ues	tion 35 of 75
Which of these phenomena takes place in the Atlantic Ocean?		of these phenomena takes place in the Atlantic Ocean?
C	A)	El Nino
	B)	Typhoons
	(C)	Humboldt Current
	D)	Gulf Stream
Q	ues	tion 36 of 75
W	here	could you find the asthenosphere?
) A)	Wherever rainfall is sufficient to create rain forests
	B)	Above the stratosphere, but below the exosphere
	(C)	Both sections of the earth's core
	D)	The upper portion of the mantle

Question 37 of 75	
Which of these eruptions rated highest on the Volcanic Explosivity Index?	
○ A) Tambora in 1815	
○ B) Kilauea in 1977	
C) Mount St. Helens in 1980	
OD) Vesuvius in 79 AD	
Question 38 of 75	
Which of these sites is where widespread fracking has taken place in recent years?	
○ A) Permian Basin	
○ B) Great Basin	
C) Florida Panhandle	
Op) Ozark Mountains	
Question 39 of 75	
The science of determining Earth's orientation in space, geometric shape, and gravitational strength is known by which term?	
OA) Geodesy	
○ B) Stratigraphy	
C) Speleology	
OD) Meteorology	
Question 40 of 75	
Which of these is an example of an escarpment?	
A) The Bonneville Salt Flats	
○ B) The Allegheny Front	
C) The Outer Banks	
OD) The Adirondacks	

Question 41 of 75	
A tombolo can be considered a small type of which landform?	
OA) A cuesta	
OB) An atoll	
C) An isthmus	
OD) An inselberg	
Question 42 of 75	
Parallel faults are found on either side of which of these relatively low-lying landforms?	
OA) Cordillera	
OB) Mesa	
OC) Butte	
OD) Graben	
Question 43 of 75	
The majority of the iron ore mined in the USA comes from which state?	
OA) Massachusetts	
○ B) Florida	
○ C) Hawaii	
OD) Minnesota	
Question 44 of 75	
The Cocos and Nazca are tectonic plates that can be found under which of these places?	
A) Eastern Pacific Ocean	
OB) North Atlantic Ocean	
OC) Africa	
OD) Asia	

Question 45 of 75	
Which of these mountain ranges is geologically older than the others?	
○ A) Himalayas	
OB) Alps	
C) Andes	
OD) Blue Ridge	
Question 46 of 75	
Despite not being located near the edge of a tectonic plate, which of these regions of USA is susceptible to major earthquakes, including one that struck in 1812?	of the
A) Northeastern Colorado	
○ B) Southeastern Missouri	
C) Northern Wisconsin	
OD) Southern Ohio	
Question 47 of 75	
Which of the following is a liquid fossil fuel?	
OA) Petroleum	
OB) Wind	
C) Solar	
OD) Coal	
Question 48 of 75	
What theory proposed by H.F. Reid describes how earthquakes undergo the names effect in strain energy?	ake
A) Spring recover theory	
B) Bounce back theory	
C) Snap back theory	
Elastic rebound theory	

Question 49 of 75	
What continent merged with Euramerica to form Pangea?	
○ A) Rodinia	
○ B) Gondwana	
○ C) Zealandia	
OD) Baltica	
Question 50 of 75	
Who proposed the theory of continental drift?	
A) Alfred Wegener	_
B) Heinrich Harrer	
C) James Hutton	
OD) Arthur Holmes	
Question 51 of 75	
An abrupt change in the way seismic waves travel occurs at what discontinuity between the core and mantle?	
A) Potential discontinuity	_
○ B) Bullen discontinuity	
C) Gutenberg Discontinuity	
OD) Mohorovicic discontinuity	
Question 52 of 75	
Sheet and rill are types of which process?	
A) Oxidation	_
OB) Calving	
C) Erosion	
OD) Orogeny	

Ques	tion 53 of 75
Eutrop	phication can be caused by an excess of what element?
(A)	Phosphorus
○ B)	Oxygen
() C)	Aluminum
(D)	Zinc
Ques	tion 54 of 75
What t	type of well forms from the pressure of an aquifer, and so does not require a pump?
(A)	Injectable
○ B)	Driven
() C)	Artesian
(D)	Bored
Ques	tion 55 of 75
In wha	at formation does strata curve upward to form a ridge?
(A)	Syncline
○ B)	Polar cline
() C)	Anticline
(D)	Monocline
Ques	tion 56 of 75
Tektite	es are generally composed of what substance?
() A)	Steel
○ B)	Glass
() C)	Iron
(D)	Soil

Question 57 of 75
What is the term for a rock that cuts through another rock vertically?
A) Dike
B) Interior
C) Lacolith
OD) Pluton
Question 58 of 75
What volcanic material includes subclasses like ash and bombs?
OA) Plankton
○ B) Tephra
C) Blocks
OD) Lapilli
Question 59 of 75
What is the uppermost soil horizon, assuming all horizons are present?
A) A
○ B) R
○ C) E
OD) O
Question 60 of 75
Which climate oscillation typically lasts between 30 and 60 days?
A) Meridional oscillation
○ B) Kelvin-Stokes oscillation
C) Southern oscillation
OD) Madden-Julian oscillation

Question 61 of 75	
The population of anchovies in Peru was drastically reduced because of what type of	f event?
OA) ENSO	
OB) ATWA	
OC) PCUE	
OD) DWSE	
Question 62 of 75	
Diagenesis occurs to form what type of rock?	
○ A) Metamorphic	
○ B) Sedimentary	
C) Igneous	
OD) Plutonic	
Question 63 of 75	
What type of particle transfer occurs when particles are carried and then transported the surface?	back to
OA) Suspension	
OB) Creep	
C) Reptation	
OD) Saltation	
Question 64 of 75	
Ekman spirals are patterns found where?	
OA) Sand	
OB) Ocean currents	
C) Crystals	
OD) Lava	

Question 65 of 75
What mineral deposits project down from the roofs of caves?
A) Stalactites
○ B) Statacites
C) Statamites
OD) Stalagmites
Question 66 of 75
What law states that coal's rank varies with depth?
A) Lewis's Law
○ B) Spencer's Law
○ C) Warmire's Law
OD) Hilt's law
Question 67 of 75
Soil, rock, and debris fuse that have been fused together into tubes when struck by lightning is given what name?
A) Fulgurite
○ B) Delafossite
C) Astrapite
O) Ettringite
Question 68 of 75
What effect describes the tendency of two cyclones close the distance of their low-pressure areas?
A) Zeeman effect
◯ B) Fujiwara effect
C) Stark effect
O) Magnus effect

	Quest	tion 69 of 75
	What H	larvard professor of geology names a prehistoric lake that covered most of Canada?
	(A)	Louis Agassiz
	(B)	Donhee Ham
	(C)	J. Michael Bishop
	(D)	Walter Gilbert
	Quest	tion 70 of 75
		lement's presence in soil gives the Alvarez hypothesis credence that an asteroid the K-T extinction event?
	(A)	Iridium
	(B)	Tantalum
	(C)	Hydrogen
	O D)	Osmium
Question 71 of 75		tion 71 of 75
	What m	nineral at the top of Bowen's discontinuous branch forms a green gem called peridot?
	(A)	Actinolite
	(B)	Glauconite
	(C)	Olivine
	(D)	Epidote
	Quest	tion 72 of 75
	Who po	opularized the term "uniformitarianism" in his Principles of Geology?
	(A)	Charles Lyell
	_	William Whewell
	(C)	James Hutton
	(D)	George Cuvier

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	Ques	tion 73 of 75
	Bajada	as are collections of what features?
	() A)	Floodplains
	○ B)	River deltas
	(C)	Alkali flats
	O D)	Alluvial fans
	Ques	tion 74 of 75
What volcanic pipes, sometimes paired with maars, can bring mineral deposits up to the surface?		
	(A)	Diatremes
	○ B)	Nyos
	(C)	Bayuda
	(D)	Eifel
	Ques	stion 75 of 75
	What	type of basin does not allow water to flow to external bodies of water?
	(A)	Limited
	(B)	Endorheic
	(C)	Center
	(D)	Noncoastal