## MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) The primary energe following?	gy sources that make	the Earth an active	body include all but v	which of the
2	of extraterrestrial boo	lies		
B) Photosynthes				
C) The Earth's i				
D) Gravity				
E) The Sun				
Answer: B				
2) The outward flow A) atmosphere	of Earth's internal e	nergy over geologic	time has produced or	ur
B) all of these a	re correct			
C) none of these	e are correct			
D) oceans				
E) continents				
Answer: B				
3) The outward flow natural hazards?	of Earth's internal e	nergy over short tim	e spans results in wh	ich of the following
A) Magnetic sto	orms			
B) None of thes	e are correct			
C) All of these a	are correct			
D) Volcanic eru	ptions			
E) Mass moven	nent			
Answer: D				
4) The inner rocky p	lanets include all but	t which of the follow	ving?	
A) Mercury	B) Jupiter	C) Earth	D) Mars	E) Venus
Answer: B				
5) The recognition o	f the Earth's great ag	e was made by	upon observati	on of the features of
the Scottish lands	cape.			
A) Albert Einste				
B) William Wal	lace			
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E) Isaac Newton	n			
Answer: C				

6) What is the meaning of Will Duran consents, subject to change without	· · · · · · · · · · · · · · · · · · ·	lization exists by geologic
A) Geologic consents are predicta	able in time and space.	
B) Geologic processes never send	d us a signal or precursor.	
C) We still don't completely under	erstand geologic processes.	
	y very quick, so there's no time for	r humans to respond.
Answer: C	, , ,	•
7) A Nebula is:		
A) a rotating cloud of small solid	particles	
B) a rotating disk composed from	n helium and hydrogen	
C) none of the choices are correc	t	
D) a rotating cloud of atmospheri	ic gases (nitrogen and oxygen)	
E) a rotating cloud of heterogene	ous materials, ice, gas and other se	olids
Answer: E		
8) The main source of Earth's meteori	tes nowadays is/are:	
A) rocky materials from Venus's	surface	
B) rocky materials from Mars's st	urface	
C) meteorites from Jupiter's atmo	osphere	
D) none of these are correct		
E) the Asteroid belt		
Answer: E		
9) The decay product of parent materi	al such as Carbon-14, is:	
A) Nitrogen-14		
B) Lead- 206		
C) Uranium- 238		
D) Argon- 40		
E) Carbon- 12		
Answer: A		
10) When describing the layers of the I	Earth based on differentiation due	to density, the inner core is a
2,450-km diameter mass	s with temperatures up to 4,300C.	
A) liquid	B) gaseous	C) solid
Answer: C		
11) When describing the layers of the I		
surrounding the core is the rocky _		thick.
A) mantle	B) chondrule	C) crust
Answer: A		

describes the sequence A) Core, mesosphere B) Core, asthenosph C) Core, mesosphere D) Core, lithosphere	ayers of the Earth based e of layers from the cent e, lithosphere, asthenosp ere, mesosphere, lithosp e, asthenosphere, lithosp , asthenosphere, mesosp	ohere ohere ohere	rength, which best	
Answer: C				
<del>-</del>	orrect low, changing their shap coverable elastic deform	pe permanently		
14) As radioactive atoms of A) released B) absorbed C) neither absorbed D) may be absorbed Answer: A	nor released	on which isotope is involve	d in the decay	
B) Nuclear energy fr within the earth i C) Nuclear energy fr	rom both places is from rom the sun is from fissi is from fusion. rom both places is from rom the sun is from fusion	on whereas energy from rac		
		ct each other with a force di onal to the of the C) square root	* * *	
the asthenosphere.  A) sinks, inward  B) lifts, outward  C) sinks, outward  D) lifts, inward	e mass is added onto land	d, land and rock	at depth flows	_ in

18) Which of the following natural hazards is n	not the direct result of the process of plate tectonics?
A) Volcanic eruptions	B) Earthquakes
C) Flooding	D) Mountain building
Answer: C	
19) Which of the following is not a basic tenet	of plate tectonics?
A) The new lithosphere slowly moves lat top of the underlying asthenosphere.	terally away from the zones of oceanic crust formation on
B) Melted asthenosphere flows upward a	s magma and cools to form new ocean floor lithosphere.
	e begins the process of reabsorption into the mantle.
	e begins the process of melting and moves into the liquid
E) When the leading edge of a moving sl	lab of oceanic lithosphere collides with another slab, the lled by gravity back into the asthenosphere (subduction), ab overrides it.
Answer: D	
20) The time needed for a typical atom in an or	ceanic plate to complete a plate-tectonic cycle is
A) about a hundred thousand years	
B) about 10 million years	
C) about a million years	
D) about 4 billion years	
E) in excess of 250 million years	
Answer: E	
21) Which of the following are incorrectly mat	ched?
A) Transform plate boundary-Shear	
B) Hot spot-Shear	
C) Convergent zone-Compression	
D) Continental rift zone-Tension	
E) Divergent zone-Tension	
Answer: B	
22) The active triple junction in Afr	ica is geologically young, forming about 25 million years
ago.	
A) western	
B) northeastern	
C) southern	
D) southwestern	
E) southeastern	
Answer: B	

23) The three basic classes of collisions include all but	which of the following?			
A) Oceanic plate versus continental plate	B) Oceanic plate versus oce	anic plate		
C) Continental plate versus continental plate	D) Mantle versus lithospher	ric plate		
Answer: D				
24) The grandest continental convergent zone in the m	odern world is the ongoing coll	ision of		
A) the Africa plate by the South American plate				
B) the North American plate by the Pacific plate				
C) the Somalia plate by the Africa plate				
D) the Africa plate by the Arabia plate				
E) the Asia plate by the India plate				
Answer: E				
25) At which of the following locations does subduction	on aggur?			
A) Along collision zones between continental an				
B) Along collision zones between two continents	_			
C) At sea floor spreading zones	ii piates			
D) At rift zones				
E) Above mantle hot spots				
Answer: A				
26) When oceanic lithosphere collides with another oc	eanic plate, the in the	e process of		
subduction.		Process or		
A) plates both disappear downward				
B) plates pile up, forming mid-ocean ridges				
C) younger, warmer plate goes beneath the older	, colder plate			
D) older, colder plate goes beneath the younger,	_			
Answer: D	•			
27) The Himalayas are located at which of the following	ng tectonic plate boundaries?			
	overgent D) Transform	E) Subduction		
Answer: C	-			
28) The Hawaiian Islands are located .				
A) above a midoceanic trench				
B) above a hot spot in the mesosphere				
C) above the midoceanic ridge				
D) above a rift zone				
E) above a midoceanic subduction zone				

Answer: B

	its were once combin	ned into a single su	percontinent called	·
A) Panthalassa				
B) Laurasia				
C) Gondwanalar	ıd			
D) Tethys				
E) Pangaea				
Answer: E				
A) Discovery of B) Theory for ho C) Theory of con D) Discovery for	magnetic reversal of ot spot volcanoes	f the poles	ohysicist J. Tuzo Wilso	on?
	direction of the Earth		atoms in iron-bearing rat that time and place.	minerals become
Answer: C				
-	_		s of magnetized seafloo e reversals of the Earth D) critical	-
			years in age because ti	me needed to
complete the tecto A) 200 million; 2 B) 50,000; 60,00 C) 2 billion; 2.5 D) 4.5 billion; 4. E) 1 million; 2 m Answer: A	00 billion .57 billion	ın		
34) As an observer mo	oves away from the o	oceanic ridges, the	seafloor volcanic rocks	s and islands
·	-	-		
_	e significantly in age			
B) become progr				
C) become progr	ressively younger			
Answer: B				

35) The hotspot-meltin	g-through-lithosphere process	forms lines of extinc	t volcanoes on the ocean		
floor, from younge	st to oldest,				
A) with random a					
B) pointing in the opposite direction of plate movement					
C) in a direction pointing toward the sun					
D) pointing at 90 degrees to the direction of plate movement					
	e direction of plate movement				
Answer: E	•				
seafloor age due to A) Erosion of the B) Cooling and c	ely away from the ridges, the of all but which of the following colder ocean floor by deep oce contraction of the oceanic crust in warping due to the weight of	ean currents with a resultant incre	ease in density		
37) The majority of the	e Earth's greatest earthquakes b	netween 1900-2013 w	ere caused by the		
A) subduction of			, <u> </u>		
B) subduction of	-				
	the Australian and the Nazca	plates			
D) divergence of	the Somali and the India plate	S			
E) convergence of	of the India into the Arabian pl	ates			
Answer: A					
38) The greatest earthc	uakes in the world occur				
A) in the interior	s of individual plates	B) where plates	slide past each other		
C) where plates separate from one another D) where plates collide with each other			collide with each other		
Answer: D					
39) Hot spots account	of the eruption of approximate	ly of all ma	agma.		
	B) 25%		D) 80%		
Answer: A					
40) Velocity of the pla	tes depends on				
A) atmospheric p					
= =	essure (thickness of the oceani	c water)			
C) combined atm	ospheric pressure and hydrost	atic pressure			
	of the mesosphere				
	of the asthenosphere				
Answer: E					

- 41) The stages in a model of a new developing sea are:
  - A) plate subduction, doming, rifting, and spreading.
  - B) centering, doming, rifting, and spreading.
  - C) none of the choices are correct.
  - D) centering, doming, rifting, and continental erosion.
  - E) hot spot, shield volcano, oceanic spreading, and trench developing.

Answer: B

- 42) The father(s) of plate Tectonics is(are) \_\_\_\_\_ and the proof for the concept comes from
  - A) Marie Curie; parallel bands of magnetized rocks
  - B) Patrick Abbott and Susan Wilson; parallel bands of magnetized rocks
  - C) Claire Samson; water depth in oceans
  - D) Tuzo Wilson; alternating polarities of seafloor rocks
  - E) Alfred Hesse; chemical composition of continental rocks

Answer: D

- 43) When the oceanic plate subducts beneath Japan, a portion of the oceanic plate in the mesosphere generates earthquakes only at (in):
  - A) the periphery of the subducting oceanic plate
  - B) none of the choices are correct
  - C) the interior of the subducting oceanic plate
  - D) both periphery and interior of the subducting oceanic plate
  - E) the mesosphere, due to the rigidity of this zone

Answer: C

- 44) When you look at the list of Earth's Greatest Earthquakes (1900-2013) the dominant cause of earthquakes is(are):
  - A) worldwide rifting
  - B) subduction
  - C) hot spots
  - D) spreading of the plates
  - E) collision of the plates

Answer: B

- 45) Why are continent-continent collision zones not associated with volcanism?
  - A) The continental rock stacks into extra-thick masses, which act as a barrier to rising magma
  - B) They are relatively distant from the liquid outer core, which is a magma source.
  - C) They are not located at the plate boundaries.
  - D) None of the choices are correct
  - E) There is sliding between continents, which act as a lid

Answer: A

## TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

46) The two main constituents of the Sun are the lightweight elements hydrogen (H) and helium (He).  Answer: True False
47) The next four planets outward beyond Earth are Jupiter, Saturn, Uranus, and Neptune.  Answer: True • False
48) Iron forms about one-third of the Earth's mass, and although it is much denser than ordinary rock, it melts at a much lower temperature.  Answer: True False
<ul><li>49) The centre of the Earth is composed of a dense, iron-rich core measuring about 7,000 km in diameter.</li><li>Answer: ○ True False</li></ul>
50) Wrapped around the core is a nearly 2,900-km-thick, rocky mantle comprising 83% of the Earth's volume.
Answer: True False  51) Floating atop the hot, buoyant rock of the mantle is a mosaic crust of more dense rocks.  Answer: True False
<ul><li>52) During the last glacial period the weight of the ice sheet caused the land around Hudson's Bay to sink more than a kilometre.</li><li>Answer: True False</li></ul>
53) The Earth is comprised, from core to atmosphere, of density-stratified layers.  Answer: • True False
54) The Earth's layering can be described either as 1) separations based on differing densities due to varying chemical and mineral compositions, or 2) layers with different strengths.  Answer: • True False
55) Both temperature and pressure decrease continuously from the Earth's surface to the core.  Answer: True • False
56) Increasing temperature causes rock to expand in volume and become denser and more capable of flowing under pressure.  Answer: True  False
57) Increasing pressure causes rock to decrease in volume and become denser and more rigid.  Answer: • True False

58)	The concept of isostasy applies a buoyancy principle to the low-density continents and mountain ranges that float on the less dense mantle below.  Answer: True False
59)	The young Earth had a much larger number of radioactive isotopes but a much lower heat production from them than it does now.  Answer: True • False
60)	The oldest Earth rocks found to date are 4.03 billion years old in Northwest Territories of Canada.  Answer: True False
61)	) James Hutton revolutionized our understanding of the Earth by hypothesizing that the time require to shape the Earth was very great.  Answer: True False
62)	Radioactive isotopes in rocks act as clocks that can be used to date the age of the igneous rock.  Answer: True False
63)	Chondrules are small rounded stony meteorites approximately 10,000 years old.  Answer: True False
64)	Rock is capable of flow only if increasing pressure and decreasing temperature are applied.  Answer: True False
65)	The nuclear fusion in the Sun forms helium from splitting hydrogen atoms, this process also require some energy absorption.  Answer: True False
66)	The breakup of Pangaea about 180 million years ago created two large continental masses, Laurasi and Gondwanaland.  Answer: True False
67)	Pangaea covered 60% of the Earth's surface while Panthalassa covered the remaining 40%.  Answer: True False
68)	The outer core is mostly liquid, and the viscous movements of convection currents within it are responsible for generating plate tectonics.  Answer: True False
69)	The gigantic pieces of lithospheric plates diverging, sliding past, or colliding with each other are directly responsible for the vast majority of the earthquakes, volcanic eruptions, and mountains on Earth.  Answer: True False

70) When data from the Earth's magnetic field locked inside seafloor rocks became widely understood, skeptics around the world were convinced that seafloor spreading occurs and that the concept of plate tectonics is valid.  Answer: True False
71) The floor of the Atlantic Ocean is striped by parallel bands of magnetized rock that show alternating polarities in a pattern that is symmetrical and parallel to the mid-ocean spreading centre.  Answer: True False
72) Subducted slabs completely melt in the core and mix with the surrounding magma at the centre of the Earth.  Answer: True False
73) The greatest mountain ranges on Earth lie on the ocean bottoms and extend more than 65,000 kilometres.  Answer: • True False
74) The deep ocean trenches are the tops of the subducting plates turning downward to re-enter the asthenosphere.  Answer: True False
75) The distribution of several fossils on opposite sides of the Atlantic Ocean and the continuity of geologic structure on different continents suggests that all the continents were once part of Pangaea.  Answer: • True False
76) The map of earthquake epicentres can be viewed as a connect-the-dots puzzle.  Answer: • True False
77) The oldest seafloor rocks are found nearest the mid-ocean ridges.  Answer: True • False
78) Hot spots have active volcanoes above them on the Earth's surface and moving plates carry the volcanoes away from their hot-spot source.  Answer: • True False
79) Above the oceanic ridges, the ocean is relatively deep compared to further away from the ridges.  Answer: True  False
80) The rates of plate movement are comparable to those of human fingernail growth.  Answer: • True False
81) The divergent or pull-apart motion at spreading centres causes rocks to fail in tension, yielding mainly smaller earthquakes that do not pose an especially great threat to humans.  Answer:   True False

82) A slide-past motion occurs as rigid lithospheric plates fracture and move around the Earth in horizontal movements of transform faults, creating large earthquakes.  Answer: True False
83) The convergent motions that occur at subduction zones and in continent-continent collisions store immense amounts of energy that are released in Earth's largest earthquakes.  Answer: • True False
84) When a continent is involved in a collision at a convergent plate boundary, it cannot subduct because its huge volume of low-density, high-buoyancy rocks cannot sink to great depth and cannot be pulled into the denser mantle rocks below.  Answer: • True False
85) The fate of oceanic plates is destruction via subduction and reabsorption into the mantle, whereas continents float about on the asthenosphere in perpetuity.  Answer: True False
86) The precollision crusts of India and Asia were each about 35-km thick; after the collision, the combined crust has been thickened to as much as 100 km.  Answer: True False
87) A topographic and bathymetric map show the thickness of the ocean water above a trench and thickness of a mountain,  Answer: True False
88) Pascal Audet installed a seismic recording station in central Yukon because this is a seismically quiet area and earthquakes from distant areas such as the west coast of Costa Rica can be better studied.
Answer: True • False
89) Japan and the Aleutian Islands of Alaska represent an island arc of volcanoes.  Answer: • True False
90) The material of Tablelands Gros Morne National Park, Newfoundland was formed during oceanic plate versus oceanic plate collision.
Answer: • True False
91) After the Indian plate with Euroasian plate collision, the huge mass of the Himalayas was formed and any further assault is stopped.
Answer: True • False

## Answer Key

Testname: UNTITLED2

- 1) B
- 2) B
- 3) D
- 4) B
- 5) C
- 6) C
- 7) E
- 8) E
- 9) A
- 10) C
- 11) A
- 12) C
- 13) B
- 14) A
- 15) D
- 16) B
- 17) C
- 18) C
- 19) D
- 20) E
- 21) B
- 22) B
- 23) D
- 24) E
- 25) A
- 26) D
- 27) C
- 28) B
- 29) E
- 30) B
- 31) C
- 32) A
- 33) A
- 34) B
- 35) E
- 36) A
- 37) A
- 38) D
- 39) A
- 40) E
- 41) B
- 42) D
- 43) C
- 44) B 45) A
- 46) TRUE
- 47) FALSE
- 48) TRUE
- 49) TRUE
- 50) TRUE

- 90) TRUE
  - 91) FALSE

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- 86) FALSE 87) FALSE
- 85) TRUE
- 84) TRUE
- 83) TRUE
- 81) TRUE 82) TRUE
- 79) FALSE 80) TRUE
- 78) TRUE
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- 54) TRUE
- 52) TRUE 53) TRUE
- 51) FALSE

Testname: UNTITLED2

Answer Key