	Student:	
1.	The primary energy sources that make the Earth an active body include all but which of the following?	
	A. The Earth's internal heat	
	B. The Sun	
	C. Gravity	
	D. The impact of extraterrestrial bodies	
	E. Photosynthesis	
2.	The outward flow of Earth's internal energy over geologic time has produced our	
	A. continents	
	B. oceans	
	C. atmosphere	
	D. all of these are correct	
	E. none of these are correct	

3.	The outward flow of Earth's internal energy over short time spans results in which of the following natural hazards?
	A. Magnetic storms
	B. Volcanic eruptions
	C. Mass movement
	D. All of these are correct
	E. None of these are correct
4.	The inner rocky planets include all but which of the following?
	A. Mercury
	B. Jupiter
	C. Venus
	D. Earth
	E. Mars
5.	The recognition of the Earth's great age was made by upon observation of the features of the Scottish landscape.
	A. Isaac Newton
	B. Albert Einstein
	C. William Wallace
	D. James Hutton
	E. William McDougal

6.	What is the meaning of Will Durant's (1885-1981) expression: "Civilization exists by geologic consents, subject to change without notice."?
	A. Geologic consents are predictable in time and space.
	B. Geologic processes are usually very quick, so there's no time for humans to respond.
	C. We still don't completely understand geologic processes.
	D. Geologic processes never send us a signal or precursor.
7.	A Nebula is:
	A. a rotating cloud of small solid particles
	B. a rotating disk composed from helium and hydrogen
	C. a rotating cloud of atmospheric gases (nitrogen and oxygen)
	D. a rotating cloud of heterogeneous materials, ice, gas and other solids
	E. none of the choices are correct
8.	The main source of Earth's meteorites nowadays is/are:
	A. meteorites from Jupiter's atmosphere
	B. rocky materials from Venus's surface
	C. the Asteroid belt
	D. rocky materials from Mars's surface
	E. none of these are correct

9.	The decay product of parent material such as Carbon-14, is:
	A. Lead- 206
	B. Argon- 40
	C. Carbon- 12
	D. Nitrogen-14
	E. Uranium- 238
10.	When describing the layers of the Earth based on differentiation due to density, the inner core is a
	2,450-km diameter mass with temperatures up to 4,300°C.
	A. gaseous
	B. liquid
	C. solid
11.	When describing the layers of the Earth based on differentiation due to density, the layer
	surrounding the core is the rocky nearly 2,900 kilometres thick.
	A. mantle
	B. crust
	C. chondrule

12.	When describing the layers of the Earth based on differentiation due to strength, which best
	describes the sequence of layers from the centre to the surface?
	A. Core, lithosphere, asthenosphere, mesosphere
	B. Core, asthenosphere, mesosphere, lithosphere
	C. Core, mesosphere, lithosphere, asthenosphere
	D. Core, mesosphere, asthenosphere, lithosphere
13.	Many materials, like glacier ice and rocks, can
	A. fracture
	B. undergo ductile flow, changing their shape permanently
	C. undergo small recoverable elastic deformation
	D. all of these are correct
	E. none of these are correct
14.	As radioactive atoms decay, energy is
	A. absorbed
	B. released
	C. neither absorbed nor released
	D. may be absorbed or released, depending on which isotope is involved in the decay

15.	Which of the following is true?
	 A. Nuclear energy from the sun is from fission whereas energy from radioactive isotopes decaying within the earth is from fusion. B. Nuclear energy from the sun is from fusion whereas energy from radioactive isotopes decaying within the earth is from fission. C. Nuclear energy from both places is from fusion. D. Nuclear energy from both places is from fission.
16.	The law of gravity states that two bodies attract each other with a force directly proportional to the
	product of their masses and inversely proportional to the of the distance between
	them.
	A. first power
	B. square
	C. cube
	D. square root
17.	When large glacial ice mass is added onto land, land and rock at depth flows in
	the asthenosphere.
	A. lifts, inward
	B. lifts, outward
	C. sinks, inward
	D. sinks, outward
	E. nothing will happened since land and rocks are rigid

18.	Which of the following natural hazards is not the direct result of the process of plate tectonics?
	A. Earthquakes
	B. Volcanic eruptions
	C. Flooding
	D. Mountain building
19.	Which of the following is not a basic tenet of plate tectonics?
	A. Melted asthenosphere flows upward as magma and cools to form new ocean floor lithosphere.
	B. The new lithosphere slowly moves laterally away from the zones of oceanic crust formation on
	top of the underlying asthenosphere.
	C. When the leading edge of a moving slab of oceanic lithosphere collides with another slab, the
	denser slab turns downward and is pulled by gravity back into the asthenosphere (subduction),
	while the less-dense, more buoyant slab overrides it.
	D. The slab pulled into the asthenosphere begins the process of melting and moves into the liquid core.
	E. The slab pulled into the asthenosphere begins the process of reabsorption into the mantle.
20.	The time needed for a typical atom in an oceanic plate to complete a plate-tectonic cycle is
	A. about a hundred thousand years
	B. about a million years
	C. about 10 million years
	D. in excess of 250 million years
	E. about 4 billion years

	A. Transform plate boundary-Shear
	B. Convergent zone-Compression
	C. Divergent zone-Tension
	D. Hot spot-Shear
	E. Continental rift zone-Tension
22.	The active triple junction in Africa is geologically young, forming about 25 million years
	ago.
	A. southwestern
	B. southeastern
	C. western
	D. northeastern
	E. southern
23.	The three basic classes of collisions include all but which of the following?
	A. Oceanic plate versus oceanic plate
	B. Mantle versus lithospheric plate
	C. Continental plate versus continental plate
	D. Oceanic plate versus continental plate

21. Which of the following are incorrectly matched?

24.	The grandest continental convergent zone in the modern world is the ongoing collision of
	A. the Africa plate by the Arabia plate B. the Somalia plate by the Africa plate C. the Asia plate by the India plate D. the North American plate by the Pacific plate E. the Africa plate by the South American plate
25.	At which of the following locations does subduction occur?
	 A. Along collision zones between continental and oceanic plates B. Along collision zones between two continental plates C. Above mantle hot spots D. At sea floor spreading zones E. At rift zones
26.	When oceanic lithosphere collides with another oceanic plate, the in the process of subduction.
	A. older, colder plate goes beneath the younger, warmer plateB. younger, warmer plate goes beneath the older, colder plateC. plates both disappear downwardD. plates pile up, forming mid-ocean ridges

27.	The Himalayas are located at which of the following tectonic plate boundaries?
	A. Divergent
	B. Subduction
	C. Transform
	D. Convergent
	E. A hot spot
28.	The Hawaiian Islands are located
	A. above the midoceanic ridge
	B. above a hot spot in the mesosphere
	C. above a midoceanic trench
	D. above a midoceanic subduction zone
	E. above a rift zone
29.	All of the continents were once combined into a single supercontinent called
	·
	A. Laurasia
	B. Gondwanaland
	C. Tethys
	D. Panthalassa
	E. Pangaea

	A. Theory of continental drift
	B. Theory for hot spot volcanoes
	C. Discovery for slab-pull mechanism
	D. Discovery of magnetic reversal of the poles
	E. Sea floor spreading hypothesis
31.	After lava cools below the point, about 550°C, atoms in iron-bearing minerals become
	magnetized in the direction of the Earth's magnetic field at that time and place.
	A. magnetization
	B. critical
	C. triple
	D. Curie
	E. solidus
32.	If sea-floor spreading occurs at a constant rate, the widths of magnetized seafloor stripes have
	ratios as the lengths of time between successive reversals of the Earth's magnetic field.
	A. opposite
	B. critical
	C. triple
	D. two to one
	E. the same

30. Which of the following is attributed to the Canadian geophysicist J. Tuzo Wilson?

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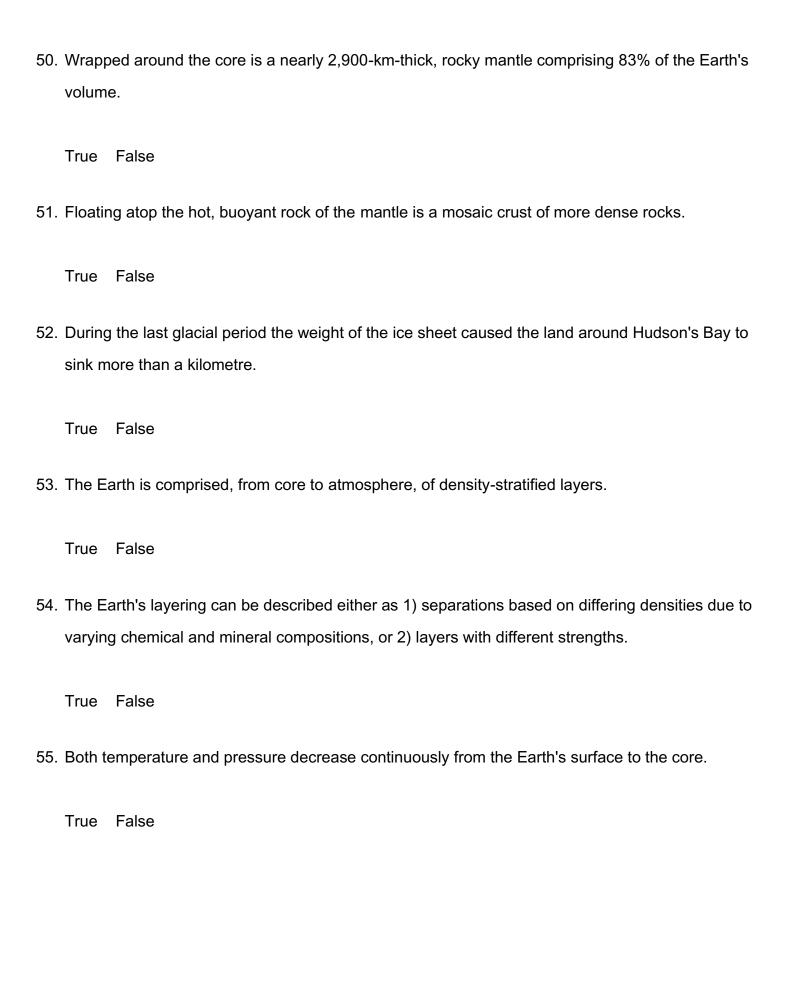
36.	Moving progressively away from the ridges, the ocean water depths increase systematically with
	seafloor age due to all but which of the following?
	A. Cooling and contraction of the oceanic crust with a resultant increase in density
	B. Isostatic down warping due to the weight of sediments deposited on the sea floor
	C. Erosion of the older ocean floor by deep ocean currents
37.	The majority of the Earth's greatest earthquakes between 1900-2013 were caused by the
	·
	A. subduction of the Nazca plate
	B. convergence of the India into the Arabian plates
	C. divergence of the Somali and the India plates
	D. subduction of the Pacific plate
	E. divergence of the Australian and the Nazca plates
38.	The greatest earthquakes in the world occur
	A. where plates collide with each other
	B. where plates separate from one another
	C. where plates slide past each other
	D. in the interiors of individual plates

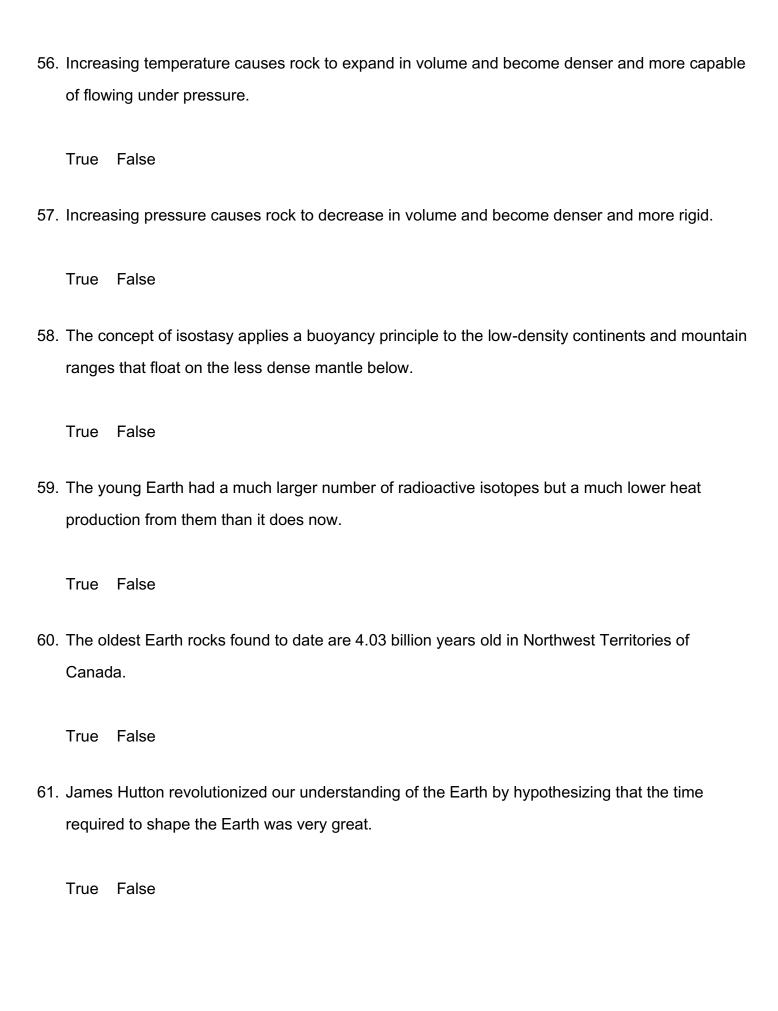
	A. 10%
	B. 25%
	C. 50%
	D. 80%
40.	Velocity of the plates depends on
	A. atmospheric pressure
	B. hydrostatic pressure (thickness of the oceanic water)
	C. the properties of the mesosphere
	D. the properties of the asthenosphere
	E. combined atmospheric pressure and hydrostatic pressure
41.	The stages in a model of a new developing sea are:
	A. centering, doming, rifting, and spreading.
	B. hot spot, shield volcano, oceanic spreading, and trench developing.
	C. plate subduction, doming, rifting, and spreading.
	D. centering, doming, rifting, and continental erosion.
	E. none of the choices are correct.

39. Hot spots account of the eruption of approximately _____ of all magma.

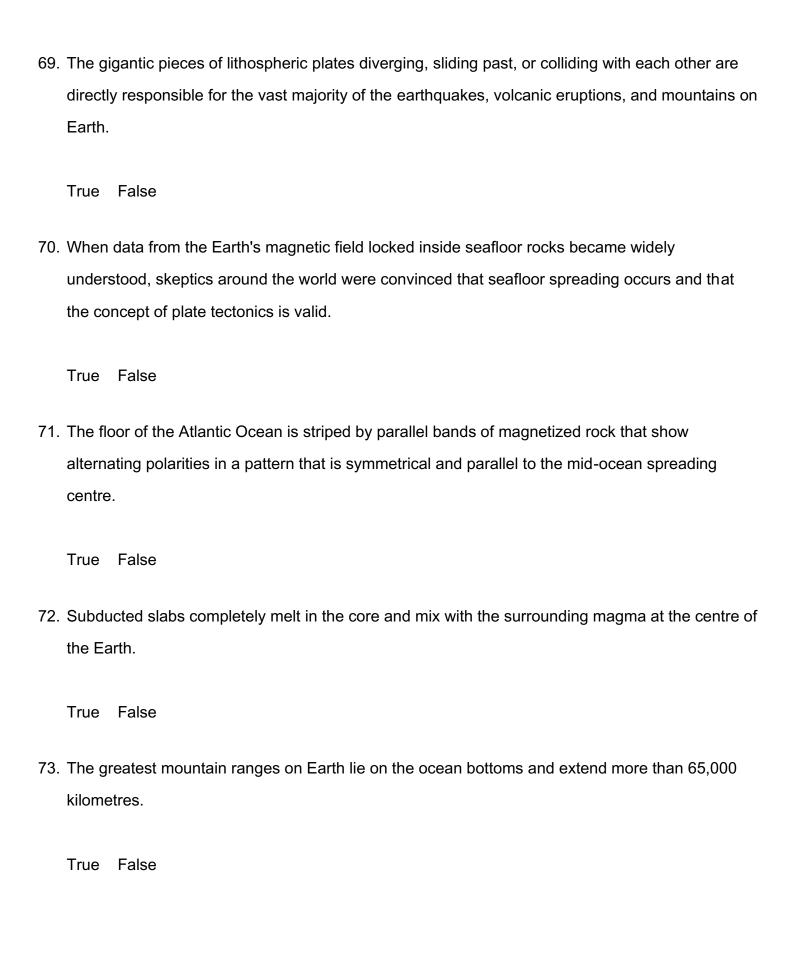
42.	The father(s) of plate Tectonics is(are)	and the proof for the concept comes
	from	
	A. Marie Curie; parallel bands of magnetized rocks	
	B. Alfred Hesse; chemical composition of continental rock	XS .
	C. Claire Simson; water depth in oceans	
	D. Tuzo Wilson; alternating polarities of seafloor rocks	
	E. Patrick Abbott and Susan Wilson; parallel bands of ma	gnetized rocks
43.	When the oceanic plate subducts beneath Japan, a portion	on of the oceanic plate in the
	mesosphere generates earthquakes only at (in):	
	A. the periphery of the subducting oceanic plate	
	B. the interior of the subducting oceanic plate	
	C. both periphery and interior of the subducting oceanic p	late
	D. the mesosphere, due to the rigidity of this zone	
	E. none of the choices are correct	
44.	When you look at the list of Earth's Greatest Earthquakes	(1900-2013) the dominant cause of
	earthquakes is(are):	
	A. collision of the plates	
	B. spreading of the plates	
	C. worldwide rifting	
	D. hot spots	
	E. subduction	

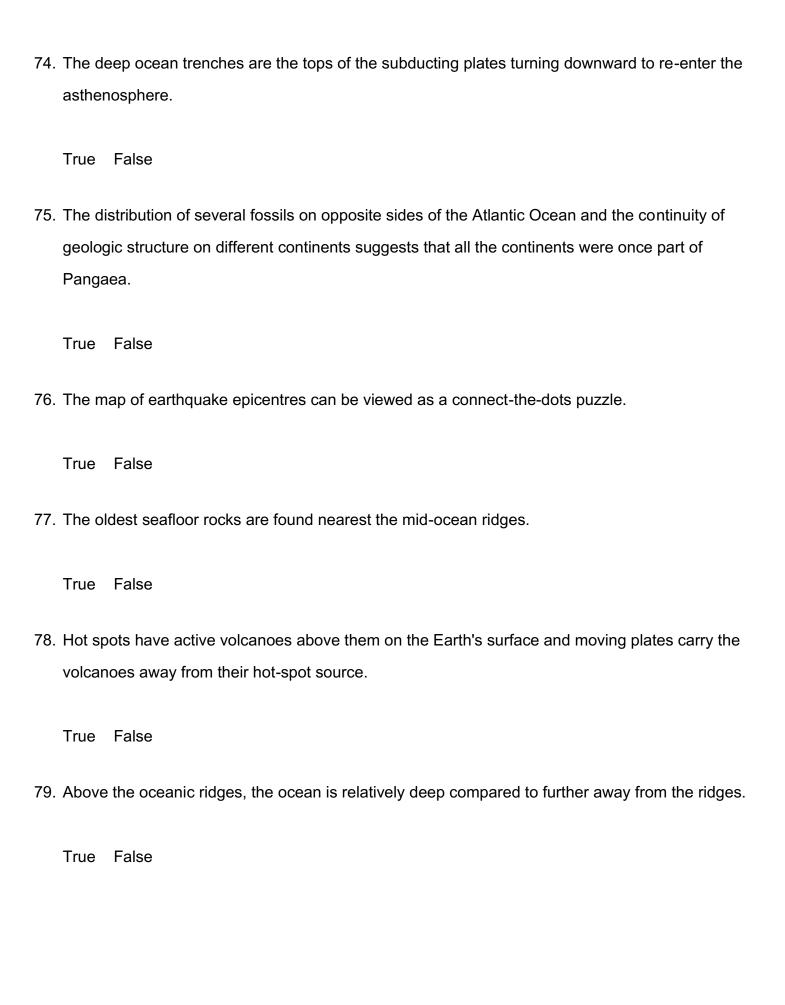
45.	Why are continent-continent collision zones not associated with volcanism?
	A. They are not located at the plate boundaries.
	B. They are relatively distant from the liquid outer core, which is a magma source.
	C. There is sliding between continents, which act as a lid
	D. The continental rock stacks into extra-thick masses, which act as a barrier to rising magma E. None of the choices are correct
46.	The two main constituents of the Sun are the lightweight elements hydrogen (H) and helium (He).
	True False
47.	The next four planets outward beyond Earth are Jupiter, Saturn, Uranus, and Neptune.
	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.
	True False
49.	The centre of the Earth is composed of a dense, iron-rich core measuring about 7,000 km in diameter.
	True False



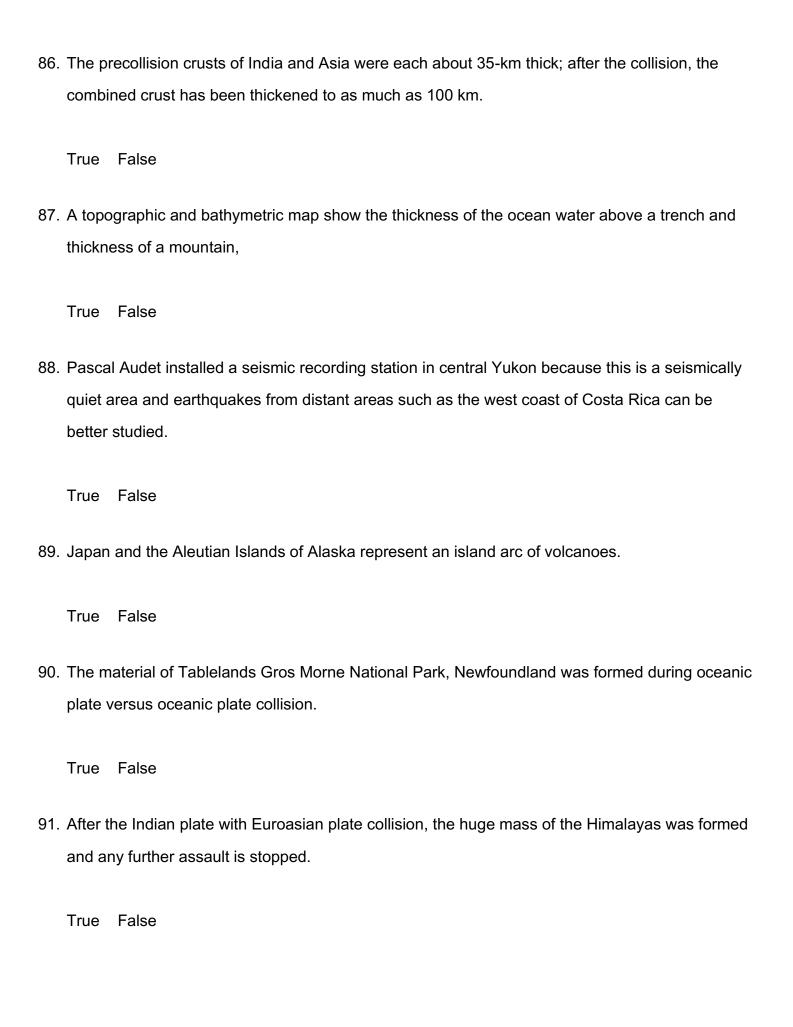


True False 63. Chondrules are small rounded stony meteorites approximately 10,000 years old. True False 64. Rock is capable of flow only if increasing pressure and decreasing temperature are applied. True False 65. The nuclear fusion in the Sun forms helium from splitting hydrogen atoms, this process also require some energy absorption. True False 66. The breakup of Pangaea about 180 million years ago created two large continental masses, Laurasia and Gondwanaland. True False 67. Pangaea covered 60% of the Earth's surface while Panthalassa covered the remaining 40%. True False 68. The outer core is mostly liquid, and the viscous movements of convection currents within it are responsible for generating plate tectonics. True False	62.	Radio	active isotopes in rocks act as clocks that can be used to date the age of the igneous rock.
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68. The outer core is mostly liquid, and the viscous movements of convection currents within it are responsible for generating plate tectonics.	67.	Panga	ea covered 60% of the Earth's surface while Panthalassa covered the remaining 40%.
responsible for generating plate tectonics.		True	False
True False	68.		
		True	False





80. The rates of plate movement are comparable to those of human fingernail growth. 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. 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. 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. 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. 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. True False



c2 Key

1.	The primary energy sources that make the Earth an active body include all but which of the following?
	A. The Earth's internal heat
	B. The Sun
	C. Gravity
	D. The impact of extraterrestrial bodies
	E. Photosynthesis
	Abbott - Chapter 02 #1
	Accessibility: Keyboard Navigation
	Difficulty: 1 Easy
	Learning Objective: 02-01 List the sources of energy fueling natural hazards.
2.	The outward flow of Earth's internal energy over geologic time has produced our
	·
	A. continents
	B. oceans
	C. atmosphere
	D. all of these are correct
	E. none of these are correct

Abbott - Chapter 02 #2

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

3.	The outward flow of Earth's internal energy over short time spans results in which of the
	following natural hazards?
	A. Magnetic storms
	B. Volcanic eruptions
	C. Mass movement
	D. All of these are correct
	E. None of these are correct
	Abbott - Chapter 02 #3
	Accessibility: Keyboard Navigation Difficulty: 2 Medium
	Learning Objective: 02-01 List the sources of energy fueling natural hazards.
4.	The inner rocky planets include all but which of the following?
٦.	The little rocky planets include all but which of the following:
	A. Mercury
	B. Jupiter
	C. Venus
	D. Earth
	E. Mars
	Abbott - Chapter 02 #4
	Accessibility: Keyboard Navigation
	Difficulty: 2 Medium Learning Objective: 02-01 List the sources of energy fueling natural hazards.

5.	The recognition of the Earth's great age was made by upon observation of the
	features of the Scottish landscape.
	A. Isaac Newton
	B. Albert Einstein
	C. William Wallace
	D. James Hutton
	E. William McDougal
	Abbott - Chapter 02 #5 Accessibility: Keyboard Navigation
	Difficulty: 3 Haro
	Learning Objective: 02-01 List the sources of energy fueling natural hazards.
6.	What is the meaning of Will Durant's (1885-1981) expression: "Civilization exists by geologic
	consents, subject to change without notice."?
	A. Geologic consents are predictable in time and space.
	B. Geologic processes are usually very quick, so there's no time for humans to respond.
	C. We still don't completely understand geologic processes.
	D. Geologic processes never send us a signal or precursor.
	Abbott - Chapter 02 #6
	Accessibility: Keyboard Navigation Difficulty: 1 Easy
	Learning Objective: 02-01 List the sources of energy fueling natural hazards.

	A. a rotating cloud of small solid particles
	B. a rotating disk composed from helium and hydrogen
	C. a rotating cloud of atmospheric gases (nitrogen and oxygen)
	D. a rotating cloud of heterogeneous materials, ice, gas and other solids
	E. none of the choices are correct
	Abbott - Chapter 02 #7
	Accessibility: Keyboard Navigation
	Difficulty: 2 Medium Learning Objective: 02-01 List the sources of energy fueling natural hazards.
8.	The main source of Earth's meteorites nowadays is/are:
	A. meteorites from Jupiter's atmosphere
	B. rocky materials from Venus's surface
	C. the Asteroid belt
	D. rocky materials from Mars's surface
	E. none of these are correct
	Abbott - Chapter 02 #8
	Accessibility: Keyboard Navigation
	Difficulty: 3 Haro
	Learning Objective: 02-01 List the sources of energy fueling natural hazards.

A Nebula is:

7.

9.	The decay product of parent material such as Carbon-14, is:
	A. Lead- 206
	B. Argon- 40
	C. Carbon- 12
	D. Nitrogen-14
	E. Uranium- 238
	Abbott - Chapter 02 #9
	Accessibility: Keyboard Navigation
	Difficulty: 3 Haro
	Learning Objective: 02-01 List the sources of energy fueling natural hazards.
10.	When describing the layers of the Earth based on differentiation due to density, the inner core
	is a 2,450-km diameter mass with temperatures up to 4,300°C.
	A. gaseous
	B. liquid
	C. solid
	Abbott - Chapter 02 #10
	Accessibility: Keyboard Navigation
	Difficulty: 2 Medium
	Learning Objective: 02-02 Describe the Earths internal structure.

11.	When describing the layers of the Earth based on differentiation due to density, the layer
	surrounding the core is the rocky nearly 2,900 kilometres thick.
	A. mantle
	B. crust
	C. chondrule
	Abbott - Chapter 02 #11
	Accessibility: Keyboard Navigation
	Difficulty: 1 Easy
	Learning Objective: 02-02 Describe the Earths internal structure.
12.	When describing the layers of the Earth based on differentiation due to strength, which best
	describes the sequence of layers from the centre to the surface?
	A. Core, lithosphere, asthenosphere, mesosphere
	B. Core, asthenosphere, mesosphere, lithosphere
	C. Core, mesosphere, lithosphere, asthenosphere
	<u>D.</u> Core, mesosphere, asthenosphere, lithosphere
	Abbott - Chapter 02 #12 Accessibility: Keyboard Navigation
	Difficulty: 3 Hara
	Learning Objective: 02-02 Describe the Earths internal structure.

13.	Many materials, like glacier ice and rocks, can
	A. fracture
	B. undergo ductile flow, changing their shape permanently
	C. undergo small recoverable elastic deformation
	D. all of these are correct
	E. none of these are correct
	Abbott - Chapter 02 #13
	Accessibility: Keyboard Navigation
	Difficulty: 2 Mediun Learning Objective: 02-03 Explain the behaviour of materials under stress
14.	As radioactive atoms decay, energy is
	A. absorbed
	B. released
	C. neither absorbed nor released
	D. may be absorbed or released, depending on which isotope is involved in the decay
	Abbott - Chapter 02 #14
	Accessibility: Keyboard Navigation
	Difficulty: 2 Mediun Learning Objective: 02-01 List the sources of energy fueling natural hazards

	A Nuclear energy from the our is from fission whereas energy from radioactive isotopes
	A. Nuclear energy from the sun is from fission whereas energy from radioactive isotopes
	decaying within the earth is from fusion.
	B. Nuclear energy from the sun is from fusion whereas energy from radioactive isotopes
	decaying within the earth is from fission.
	C. Nuclear energy from both places is from fusion.
	D. Nuclear energy from both places is from fission.
	Abbott - Chapter 02 #15
	Accessibility: Keyboard Navigation
	Difficulty: 3 Haro Learning Objective: 02-01 List the sources of energy fueling natural hazards.
16.	The law of gravity states that two bodies attract each other with a force directly proportional to
	the product of their masses and inversely proportional to the of the distance
	between them.
	A. first power
	B. square
	C. cube
	D. square root
	Abbott - Chapter 02 #16
	Accessibility: Keyboard Navigation
	Difficulty: 3 Haro Learning Objective: 02-01 List the sources of energy fueling natural hazards.
	Learning Objective. 02-01 List the Sources of energy Identity Natural Nazarus.

15.

Which of the following is true?

17.	When large glacial ice mass is added ante lar	nd land	and rock at donth flows
17.	When large glacial ice mass is added onto lar	iu, iariu	_ and rock at depth flows
	in the asthenosphere.		
	A. lifts, inward		
	B. lifts, outward		
	C. sinks, inward		
	D. sinks, outward		
	E. nothing will happened since land and rocks	s are rigid	
	E. Hothing will happened since land and rock.	s are rigid	
			Abbott - Chapter 02 #17
			Accessibility: Keyboard Navigation
			Difficulty: 2 Medium
		Learning Objective: 02-0	3 Explain the behaviour of materials under stress.
18.	Which of the following natural hazards is not t	he direct result o	of the process of plate
	tectonics?		r and proceed or place
	tectorics ?		
	∧ Farthquakos		
	A. Earthquakes		
	B. Volcanic eruptions		
	C. Flooding		
	D. Mountain building		
			Abbott - Chapter 02 #18
			Accessibility: Keyboard Navigation
	le	arnina Obiective: 02-01 l	Difficulty: 1 Easy ist the sources of energy fueling natural hazards.
	20		The state of the s

19.	Which of the following is not a basic tenet of plate tectonics?
	A. Melted asthenosphere flows upward as magma and cools to form new ocean floor lithosphere.
	B. The new lithosphere slowly moves laterally away from the zones of oceanic crust formation on top of the underlying asthenosphere.
	C. When the leading edge of a moving slab of oceanic lithosphere collides with another slab, the denser slab turns downward and is pulled by gravity back into the asthenosphere (subduction), while the less-dense, more buoyant slab overrides it.
	<u>D.</u> The slab pulled into the asthenosphere begins the process of melting and moves into the liquid core.
	E. The slab pulled into the asthenosphere begins the process of reabsorption into the mantle. Abbott - Chapter 02 #19
	Accessibility: Keyboard Navigation Difficulty: 3 Haro Learning Objective: 02-04 Explain how plate tectonics operates.
20.	The time needed for a typical atom in an oceanic plate to complete a plate-tectonic cycle is
	A. about a hundred thousand years
	B. about a million years C. about 10 million years
	D. in excess of 250 million years

E. about 4 billion years

21.	Which of the following are incorrectly matche	d?
	A. Transform plate boundary-Shear	
	B. Convergent zone-Compression	
	C. Divergent zone-Tension	
	D. Hot spot-Shear	
	E. Continental rift zone-Tension	
		Abbott - Chapter 02 #21 Accessibility: Keyboard Navigation
		Difficulty: 3 Haro
		Learning Objective: 02-04 Explain how plate tectonics operates.
22.	The active triple junction in Africa	is geologically young, forming about 25 million
	years ago.	
	A. southwestern	
	B. southeastern	
	C. western	
	<u>D.</u> northeastern	
	E. southern	
		Abbatt Charter 02 422
		Abbott - Chapter 02 #22

Accessibility: Keyboard Navigation

Learning Objective: 02-04 Explain how plate tectonics operates.

Difficulty: 3 Haro

23.	The three basic classes of collisions include all but which of the following?
	A. Oceanic plate versus oceanic plate
	B. Mantle versus lithospheric plate
	C. Continental plate versus continental plate
	D. Oceanic plate versus continental plate
	Abbott - Chapter 02 #23
	Accessibility: Keyboard Navigation
	Difficulty: 1 Easy Learning Objective: 02-04 Explain how plate tectonics operates.
	-
	A. the Africa plate by the Arabia plate
	B. the Somalia plate by the Africa plate
	C. the Asia plate by the India plate
	D. the North American plate by the Pacific plate
	E. the Africa plate by the South American plate
	Abbott - Chapter 02 #24
	Accessibility: Keyboard Navigation
	Difficulty: 1 Easy Learning Objective: 02-04 Explain how plate tectonics operates.
	• , , , , , , , , , , , , , , , , , , ,

	A. Along collision zones between continental and oceanic plates
	B. Along collision zones between two continental plates
	C. Above mantle hot spots
	D. At sea floor spreading zones
	E. At rift zones
	Abbatt Chapter 02 #2
	Abbott - Chapter 02 #2: Accessibility: Keyboard Navigation
	Difficulty: 1 Eas_
	Learning Objective: 02-04 Explain how plate tectonics operates
26.	When oceanic lithosphere collides with another oceanic plate, the in the process of
	subduction.
	A. older, colder plate goes beneath the younger, warmer plate
	B. younger, warmer plate goes beneath the older, colder plate
	C. plates both disappear downward
	D. plates pile up, forming mid-ocean ridges
	Abbott - Chapter 02 #20
	Accessibility: Keyboard Navigation
	Difficulty: 1 Eas

Learning Objective: 02-04 Explain how plate tectonics operates.

At which of the following locations does subduction occur?

25.

27.	The Himalayas are located at which of the following tectonic plate boundaries?	
	A. Divergent	
	B. Subduction	
	C. Transform	
	<u>D.</u> Convergent	
	E. A hot spot	
		Abbott - Chapter 02 #2
		Accessibility: Keyboard Navigation
		Difficulty: 1 Eas
		Learning Objective: 02-04 Explain how plate tectonics operates
28.	The Hawaiian Islands are located	
	A. above the midoceanic ridge	
	B. above a hot spot in the mesosphere	
	C. above a midoceanic trench	
	D. above a midoceanic subduction zone	
	E. above a rift zone	
		Abbott - Chapter 02 #2
		Accessibility: Keyboard Navigation
		Difficulty: 1 Eas Learning Objective: 02-04 Explain how plate tectonics operates
		Ecalling Colocive. 02-07 Explain now place lectories Operales

All of the cont	nents were once combined into a single supercontinent called
	·
A 1	
A. Laurasia	
B. Gondwana	and
C. Tethys	
D. Panthalass	a a constant of the constant o
E. Pangaea	
	Abbott - Chapter 02 #29
	Accessibility: Keyboard Navigation
,	Difficulty: 1 Easy earning Objective: 02-06 Explain the relationship between plate tectonics and the location of earthquakes and volcanoes.
Which of the f	ollowing is attributed to the Canadian geophysicist J. Tuzo Wilson?
A. Theory of o	ontinental drift
B. Theory for	not spot volcanoes
C. Discovery	or slab-pull mechanism
D. Discovery	f magnetic reversal of the poles
E. Sea floor s	preading hypothesis
	Abbott - Chapter 02 #30
	Accessibility: Keyboard Navigation
	Difficulty: 2 Medium
	Learning Objective: 02-05 Evaluate the evidence for plate tectonic

31.	After lava cools below the po	int, about 550°C, atoms in iron-bearing minerals become	
	magnetized in the direction of the Earth's magnetic field at that time and place.		
	A magnetization		
	A. magnetization		
	B. critical		
	C. triple		
	<u>D.</u> Curie		
	E. solidus		
		Abbott - Chapter 02 #31	
		Accessibility: Keyboard Navigation	
		Difficulty: 3 Haro	
		Learning Objective: 02-05 Evaluate the evidence for plate tectonics.	
32.	If sea-floor spreading occurs at a cor	nstant rate, the widths of magnetized seafloor stripes have	
	ratios as the lengths of time be	etween successive reversals of the Earth's magnetic field.	
	A. opposite		
	B. critical		
	C. triple		
	D. two to one		
	E. the same		
		Abbott - Chapter 02 #32	
		Accessibility: Keyboard Navigation	

Difficulty: 2 Medium

Learning Objective: 02-05 Evaluate the evidence for plate tectonics.

	years in age because time needed to
complete the tectonic cycle is more than	_•
A. 50,000; 60,000	
B. 1 million; 2 million	
C. 200 million; 250 million	
D. 2 billion; 2.5 billion	
E. 4.5 billion; 4.57 billion	
	Abbott - Chapter 02 #3
	Accessibility: Keyboard Navigatio Difficulty: 2 Mediui
	Learning Objective: 02-04 Explain how plate tectonics operates
	Learning Objective: 02-05 Evaluate the evidence for plate tectonics
As an observer moves away from the oceanic ric	
As an observer moves away from the oceanic rice. A. become progressively older	
·	
A. become progressively older	
A. become progressively older B. become progressively younger	dges, the seafloor volcanic rocks and islands
A. become progressively older B. become progressively younger	Abbott - Chapter 02 #3-
A. become progressively older B. become progressively younger	dges, the seafloor volcanic rocks and islands

35.	The hotspot-melting-through-lithosphere process forms lines of extinct volcanoes on the ocean
	floor, from youngest to oldest,
	A. with random ages along the lines
	B. in a direction pointing toward the sun
	C. pointing at 90 degrees to the direction of plate movement
	D. pointing in the opposite direction of plate movement
	E. pointing in the direction of plate movement
	Abbott - Chapter 02 #35
	Accessibility: Keyboard Navigation Difficulty: 1 Easy
	Learning Objective: 02-04 Explain how plate tectonics operates.
26	Maying programatively away from the ridges, the appen water depths increase a systematically
36.	Moving progressively away from the ridges, the ocean water depths increase systematically
	with seafloor age due to all but which of the following?
	A. Cooling and contraction of the oceanic crust with a resultant increase in density
	B. Isostatic down warping due to the weight of sediments deposited on the sea floor
	C. Erosion of the older ocean floor by deep ocean currents
	Abbott - Chapter 02 #36
	Accessibility: Keyboard Navigation
	Difficulty: 1 Easy
	Learning Objective: 02-05 Evaluate the evidence for plate tectonics.

	A. subduction of the Nazca plate
	B. convergence of the India into the Arabian plates
	C. divergence of the Somali and the India plates
	<u>D.</u> subduction of the Pacific plate
	E. divergence of the Australian and the Nazca plates
	Abbott - Chapter 02 #37
	Accessibility: Keyboard Navigation
	Difficulty: 1 Easy
	Learning Objective: 02-06 Explain the relationship between plate tectonics and the location of earthquakes and volcanoes.
3.	The greatest earthquakes in the world occur
).	The greatest earthquakes in the world occur
	A. where plates collide with each other
	B. where plates separate from one another
	C. where plates slide past each other
	D. in the interiors of individual plates
	Abbott - Chapter 02 #38
	Accessibility: Keyboard Navigation
	Difficulty: 1 Easy
	Learning Objective: 02-06 Explain the relationship between plate tectonics and the location of earthquakes and volcanoes.

The majority of the Earth's greatest earthquakes between 1900-2013 were caused by the

37.

39.	Hot spots account of the eruption of approximately of all magma.
	<u>A.</u> 10%
	B. 25%
	C. 50%
	D. 80%
	Abbott - Chapter 02 #39
	Accessibility: Keyboard Navigation Difficulty: 2 Medium
	Learning Objective: 02-06 Explain the relationship between plate tectonics and the location of earthquakes and volcanoes.
40.	Velocity of the plates depends on
	A. atmospheric pressure
	B. hydrostatic pressure (thickness of the oceanic water)
	C. the properties of the mesosphere
	<u>D.</u> the properties of the asthenosphere
	E. combined atmospheric pressure and hydrostatic pressure
	Abbott - Chapter 02 #40
	Accessibility: Keyboard Navigation

Difficulty: 2 Medium

	<u>A.</u> centering, doming, rifting, and spreading.
	B. hot spot, shield volcano, oceanic spreading, and trench developing.
	C. plate subduction, doming, rifting, and spreading.
	D. centering, doming, rifting, and continental erosion.
	E. none of the choices are correct.
	Abbott - Chapter 02 #41
	Accessibility: Keyboard Navigation
	Difficulty: 3 Haro
	Learning Objective: 02-04 Explain how plate tectonics operates.
12.	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. Alfred Hesse; chemical composition of continental rocks
	C. Claire Simson; water depth in oceans
	<u>D.</u> Tuzo Wilson; alternating polarities of seafloor rocks
	E. Patrick Abbott and Susan Wilson; parallel bands of magnetized rocks
	Abbott - Chapter 02 #42
	Accessibility: Keyboard Navigation

Difficulty: 1 Easy

Learning Objective: 02-05 Evaluate the evidence for plate tectonics.

The stages in a model of a new developing sea are:

41.

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. the interior of the subducting oceanic plate
	C. both periphery and interior of the subducting oceanic plate
	D. the mesosphere, due to the rigidity of this zone
	E. none of the choices are correct
	Abbott - Chapter 02 #43 Accessibility: Keyboard Navigation
	Difficulty: 3 Haro
	Learning Objective: 02-04 Explain how plate tectonics operates.
	Learning Objective: 02-05 Evaluate the evidence for plate tectonics.
44.	When you look at the list of Earth's Greatest Earthquakes (1900-2013) the dominant cause of
	earthquakes is(are):
	A. collision of the plates
	B. spreading of the plates
	C. worldwide rifting
	D. hot spots
	E. subduction
	Abbatt Charter C2 #44
	Abbott - Chapter 02 #44 Accessibility: Keyboard Navigation
	Difficulty: 1 Easy
	Learning Objective: 02-06 Explain the relationship between plate tectonics and the location of earthquakes and volcanoes.

45.	Why are continent-continent collision zones not associated with volcanism?
	A. There are not be acted at the relate becoming to
	A. They are not located at the plate boundaries.
	B. They are relatively distant from the liquid outer core, which is a magma source.
	C. There is sliding between continents, which act as a lid
	<u>D.</u> The continental rock stacks into extra-thick masses, which act as a barrier to rising magma
	E. None of the choices are correct
	Abbott - Chapter 02 #45
	Accessibility: Keyboard Navigation
	Difficulty: 2 Medium Learning Objective: 02-06 Explain the relationship between plate tectonics and the location of earthquakes and volcanoes.
46.	The two main constituents of the Sun are the lightweight elements hydrogen (H) and helium
	(He).
	TRUE
	Abbott - Chapter 02 #46
	Accessibility: Keyboard Navigation Difficulty: 1 Easy
	Learning Objective: 02-01 List the sources of energy fueling natural hazards.
47.	The next four planets outward beyond Earth are Jupiter, Saturn, Uranus, and Neptune.
	FALSE
	Abbott - Chapter 02 #47
	Accessibility: Keyboard Navigation Difficulty: 3 Haro
	Learning Objective: 02-01 List the sources of energy fueling natural hazards.

	rock, it melts at a much lower temperature.
	TRUE
	<u>TRUE</u>
	Abbott - Chapter 02 #48
	Accessibility: Keyboard Navigation
	Difficulty: 2 Medium
	Learning Objective: 02-02 Describe the Earths internal structure.
49.	The centre of the Earth is composed of a dense, iron-rich core measuring about 7,000 km in
	diameter.
	TRUE
	Abbott - Chapter 02 #49
	Accessibility: Keyboard Navigation
	Difficulty: 2 Medium Learning Objective: 02-02 Describe the Earths internal structure.
50.	Wrapped around the core is a nearly 2,900-km-thick, rocky mantle comprising 83% of the
	Earth's volume.
	TOUE
	TRUE
	Abbott - Chapter 02 #50
	Accessibility: Keyboard Navigation
	Difficulty: 2 Medium
	Learning Objective: 02-02 Describe the Earths internal structure.
51.	Floating atop the hot, buoyant rock of the mantle is a mosaic crust of more dense rocks.
	<u>FALSE</u>

Abbott - Chapter 02 #51

Accessibility: Keyboard Navigation

Iron forms about one-third of the Earth's mass, and although it is much denser than ordinary

48.

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.

TRUE

Abbott - Chapter 02 #52

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

Learning Objective: 02-03 Explain the behaviour of materials under stress.

53. The Earth is comprised, from core to atmosphere, of density-stratified layers.

TRUE

Abbott - Chapter 02 #53

Accessibility: Keyboard Navigation

Difficulty: 1 Easy

Learning Objective: 02-02 Describe the Earths internal structure.

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.

TRUE

Abbott - Chapter 02 #54

Accessibility: Keyboard Navigation

Difficulty: 1 Easy

Learning Objective: 02-02 Describe the Earths internal structure.

55. Both temperature and pressure decrease continuously from the Earth's surface to the core.

FALSE

56. Increasing temperature causes rock to expand in volume and become denser and more capable of flowing under pressure.

FALSE

Abbott - Chapter 02 #56

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

Learning Objective: 02-03 Explain the behaviour of materials under stress.

57. Increasing pressure causes rock to decrease in volume and become denser and more rigid.

TRUE

Abbott - Chapter 02 #57

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

Learning Objective: 02-03 Explain the behaviour of materials under stress.

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.

FALSE

Abbott - Chapter 02 #58

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

Learning Objective: 02-03 Explain the behaviour of materials under stress.

59. The young Earth had a much larger number of radioactive isotopes but a much lower heat production from them than it does now.

FALSE

Abbott - Chapter 02 #59

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

Learning Objective: 02-01 List the sources of energy fueling natural hazards.

60. The oldest Earth rocks found to date are 4.03 billion years old in Northwest Territories of Canada.

TRUE

Abbott - Chapter 02 #60

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

Learning Objective: 02-01 List the sources of energy fueling natural hazards.

61. James Hutton revolutionized our understanding of the Earth by hypothesizing that the time required to shape the Earth was very great.

TRUE

Abbott - Chapter 02 #61

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

Learning Objective: 02-01 List the sources of energy fueling natural hazards.

62. Radioactive isotopes in rocks act as clocks that can be used to date the age of the igneous rock.

Learning Objective: 02-01 List the sources of energy fueling natural hazards.

63. Chondrules are small rounded stony meteorites approximately 10,000 years old.

FALSE

Abbott - Chapter 02 #63

Accessibility: Keyboard Navigation

Difficulty: 1 Easy

Learning Objective: 02-01 List the sources of energy fueling natural hazards.

64. Rock is capable of flow only if increasing pressure and decreasing temperature are applied.

FALSE

Abbott - Chapter 02 #64

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

Learning Objective: 02-03 Explain the behaviour of materials under stress.

65. The nuclear fusion in the Sun forms helium from splitting hydrogen atoms, this process also require some energy absorption.

FALSE

Abbott - Chapter 02 #65

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

Learning Objective: 02-01 List the sources of energy fueling natural hazards.

66. The breakup of Pangaea about 180 million years ago created two large continental masses, Laurasia and Gondwanaland.

TRUE

Abbott - Chapter 02 #66

Accessibility: Keyboard Navigation

Difficulty: 1 Easy

Learning Objective: 02-06 Explain the relationship between plate tectonics and the location of earthquakes and volcanoes.

67. Pangaea covered 60% of the Earth's surface while Panthalassa covered the remaining 40%.

FALSE

Abbott - Chapter 02 #67

Accessibility: Keyboard Navigation

Difficulty: 3 Haro

Learning Objective: 02-06 Explain the relationship between plate tectonics and the location of earthquakes and volcanoes.

68. The outer core is mostly liquid, and the viscous movements of convection currents within it are responsible for generating plate tectonics.

FALSE

Abbott - Chapter 02 #68

Accessibility: Keyboard Navigation

Difficulty: 1 Easy

Learning Objective: 02-04 Explain how plate tectonics operates.

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.

Learning Objective: 02-06 Explain the relationship between plate tectonics and the location of earthquakes and volcanoes.

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.

TRUE

Abbott - Chapter 02 #70

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

Learning Objective: 02-06 Explain the relationship between plate tectonics and the location of earthquakes and volcanoes.

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.

TRUE

Abbott - Chapter 02 #71

Accessibility: Keyboard Navigation

Difficulty: 1 Easy

Learning Objective: 02-05 Evaluate the evidence for plate tectonics.

72. Subducted slabs completely melt in the core and mix with the surrounding magma at the centre of the Earth.

FALSE

Abbott - Chapter 02 #72

Accessibility: Keyboard Navigation

Difficulty: 1 Easy

73. The greatest mountain ranges on Earth lie on the ocean bottoms and extend more than 65,000 kilometres.

TRUE

Abbott - Chapter 02 #73

Accessibility: Keyboard Navigation

Difficulty: 1 Easy

Learning Objective: 02-05 Evaluate the evidence for plate tectonics.

74. The deep ocean trenches are the tops of the subducting plates turning downward to re-enter the asthenosphere.

TRUE

Abbott - Chapter 02 #74

Accessibility: Keyboard Navigation

Difficulty: 1 Easy

Learning Objective: 02-04 Explain how plate tectonics operates.

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.

TRUE

Abbott - Chapter 02 #75

Accessibility: Keyboard Navigation

Difficulty: 1 Easy

Learning Objective: 02-06 Explain the relationship between plate tectonics and the location of earthquakes and volcanoes.

76. The map of earthquake epicentres can be viewed as a connect-the-dots puzzle.

Learning Objective: 02-05 Evaluate the evidence for plate tectonics.

77. The oldest seafloor rocks are found nearest the mid-ocean ridges.

FALSE

Abbott - Chapter 02 #77

Accessibility: Keyboard Navigation

Difficulty: 1 Easy

Learning Objective: 02-05 Evaluate the evidence for plate tectonics.

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.

TRUE

Abbott - Chapter 02 #78

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

Learning Objective: 02-05 Evaluate the evidence for plate tectonics.

79. Above the oceanic ridges, the ocean is relatively deep compared to further away from the ridges.

FALSE

Abbott - Chapter 02 #79

Accessibility: Keyboard Navigation

Difficulty: 1 Easy

Learning Objective: 02-05 Evaluate the evidence for plate tectonics.

	Accessibility: Keyboard Navigation
	Difficulty: 2 Medium
	Learning Objective: 02-04 Explain how plate tectonics operates.
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.
	<u>TRUE</u>
	Abbott - Chapter 02 #81
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	Difficulty: 2 Medium
	Learning Objective: 02-06 Explain the relationship between plate tectonics and the location of earthquakes and volcanoes.
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.
	<u>TRUE</u>
	Abbott - Chapter 02 #82
	Accessibility: Keyboard Navigation
	Difficulty: 2 Medium
	Learning Objective: 02-06 Explain the relationship between plate tectonics and the location of earthquakes and volcanoes.
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.
	TRUE

The rates of plate movement are comparable to those of human fingernail growth.

Abbott - Chapter 02 #80

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80.

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.

TRUE

Abbott - Chapter 02 #84

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

Learning Objective: 02-04 Explain how plate tectonics operates.

85. The fate of oceanic plates is destruction via subduction and reabsorption into the mantle, whereas continents float about on the asthenosphere in perpetuity.

TRUE

Abbott - Chapter 02 #85

Accessibility: Keyboard Navigation

Difficulty: 1 Easy

Learning Objective: 02-04 Explain how plate tectonics operates.

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.

FALSE

Abbott - Chapter 02 #86

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

87. A topographic and bathymetric map show the thickness of the ocean water above a trench and thickness of a mountain,

FALSE

Abbott - Chapter 02 #87

Accessibility: Keyboard Navigation

Difficulty: 1 Easy

Learning Objective: 02-04 Explain how plate tectonics operates.

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.

FALSE

Abbott - Chapter 02 #88

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

Learning Objective: 02-04 Explain how plate tectonics operates.

89. Japan and the Aleutian Islands of Alaska represent an island arc of volcanoes.

TRUE

Abbott - Chapter 02 #89

Accessibility: Keyboard Navigation

Difficulty: 2 Medium

Learning Objective: 02-06 Explain the relationship between plate tectonics and the location of earthquakes and volcanoes.

90. The material of Tablelands Gros Morne National Park, Newfoundland was formed during oceanic plate versus oceanic plate collision.

Learning Objective: 02-04 Explain how plate tectonics operates.

91. After the Indian plate with Euroasian plate collision, the huge mass of the Himalayas was formed and any further assault is stopped.

FALSE

Abbott - Chapter 02 #91

Accessibility: Keyboard Navigation

Difficulty: 1 Easy

c2 Summary

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