Ea

Exam					
Name					
MULTIPLE CHOICE. C	Choose the or	ne alternative that bes	t completes the statement	t or answers the question.	
		t layer of the Earth.			1)
A) outer co	re	B) inner core	C) crust	D) mantle	
Answer: C Explanation:	A) B) C) D)				
2) Consider the t moving with r			ceanic-ridge boundary. H	low are the plates	2)
A) sliding a C) falling ir	long it	5	B) moving away froD) moving toward it		
Answer: B Explanation:	A) B) C) D)				
A) wind and B) oil and c C) tidal ford	d ocean curre oal ces and wind	nts	and geologic processes ar		3)
Answer: D Explanation:	A) B) C) D)				
with being the	e father of mo nism and the		who wrote <u>Theory of the</u> he was the first to promo me. C) James Hutton		4)
A) Charles Answer: C Explanation:	A) B) C)				

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found in A) the rugg B) the Alp C) the Mid	extension of North America's great F ged landscape of Western Greenland s of Southern Europe Atlantic Ridge north of Iceland edonides of the British Isles and Scan		5)
Answer: D Explanation:	A) B) C) D)		
A) an extre	emely old age for the Earth	formitarianism inevitably led to the acceptance of	6)
C) Ussher's D) a geolog	's theory of evolution s calculations gic evolution for Earth that was free f	rom catastrophes	
Answer: A Explanation:	A) B) C) D)		
	l, chemical and biological processes t " is a restatement of James Hutton's t	hat operate today have operated throughout	7)
A) uniform C) catastro		B) gradualism D) recidivism	
Answer: A Explanation:	A) B) C) D)		
8) The continen thick.	tal crust is heterogeneous but is pred	ominantly made of and is	8)
A) granite, C) basalt, 7	35 to 70 km 7 km	B) granite, 3.5 to 7 km D) metasedimentary rocks, 600 km	
Answer: A Explanation:	A) B) C)		

D)

A) range on B) range fro C) must be nothing	Id intervals of importance to geologic Ily from days to millions of years om less than a millisecond to billions shorter than seismic wave vibrations in between at least as long as the epochs in the ge	of years or longer than mantle convection cycles but	9)
Explanation:	A) B) C) D)		
A) 20 metre	of lithospheric (tectonic) plate moven s per year metres per year A) B) C) D)	nent is B) 5 centimetres per year D) 2 metres per year	10)
11) is the A) Lithificat C) Weather Answer: C Explanation:	tion	in place to produce soils and sediments. B) Metamorphism D) Subduction	11)
12) rock: A) Igneous Answer: D Explanation:	-	e Earth. C) Metamorphic D) Sedimentary	12)
encompasses _ A) only the B) the first 4 C) only the			13)

 14) The continental shelf is located A) between the continental slope and continental rise B) seaward of the continental slope C) between the continental rise and the abyssal plains D) landward of the continental slope Answer: D Explanation: A) B) C) D) 	14)
 15) are the three, basic categories of rocks in the rock cycle. A) Sedimentary, igneous, and metamorphic C) Crustal, lithospheric, and transform Answer: A Explanation: A) B) C) D) 	15)
16) The forms the relatively cool, brittle plates of plate tectonics. A) astrosphere B) eosphere C) lithosphere D) asthenosphere Answer: C Explanation: A) B) C) D)	16)
 17) What was Wegener's dramatic paleoclimatic evidence linking all of the southern hemisphere continents between 300 and 220 million years ago? A) massive reef limestones in Alberta and the Eastern Arctic B) tropical Carboniferous coal swamps across the Northern Hemisphere, particularly the Eastern U.S. and central Europe, where the fossil trees lacked annual growth rings C) massive crossbedded red sandstones suggesting former tropical deserts D) striated and grooved bedrock overlain by Paleozoic tillites in South American and African areas now within 30° of the equator Answer: D Explanation: A) B) C) 	17)
D) 18) In correct order from the centre outward, Earth includes which units? A) inner core, crust, mantle, hydrosphere C) core, inner mantle, outer mantle, crust Answer: D Explanation: A) B) C) D)	18)

 19) Why are the youngest mountains formed either in the circum Pacific belt or the Alps-Himalayas belt? A) Because this is where the oldest and strongest rocks are exposed. B) Because these are the stable shield areas. C) These are the regions with the greatest political pressure. D) These are areas of maximum plate convergence today. 	19)
Answer: D Explanation: A) B) C) D)	
 20) That fossil organisms succeed one another in an orderly and definite sequence is A) the principal of fossil succession B) the law of superposition C) the law of the geologic time scale D) the Phanerozoic principal 	20)
Answer: A Explanation: A) B) C) D)	
 21) The Earth's atmosphere serves to A) protect us from alien invasion B) generate Earth's gravitational field C) generate Earth's magnetic field D) reduce ultraviolet radiation, trap solar heat, and regulate climate 	21)
Answer: D Explanation: A) B) C) D)	
22) Compared to the age of Earth accepted as correct today, how did 17th and 18th century proponents of catastrophism envision the Earth's age?A) They believed Earth to be much older than it really is.	22)

- B) They believed Earth to be a few hundred years younger than it really is.
- C) They accepted Bishop Ussher's calculation but explained the differences in landforms and geology by violent catastrophes.
- D) They were right on the money, give or take a few million years.

Answer: C

- Explanation: A)
 - B)
 - C)
 - D)

23) The process by A) plutonisr C) volcanisr		v to rock is termed B) thermal metamorp D) crystallization	hism	23)
Answer: D Explanation:	A) B) C) D)			
24) The total lengt A) 70,000 kn Answer: A Explanation:	n of the spreading ridge system in n B) 700 km A) B) C) D)	n the world's ocean basins is a C) 700,000 km	about D) 7,000 km	24)
A) minor an B) minor an C) major am	he dominant iron and nickle, the nounts of oxygen, silicon and sulp nounts of heavy metals such as go nounts of oxygen, silicon and sulp purces of diamonds A) B) C) D)	bhur bld, lead, and uranium		25)
continent in th A) tillites in B) lithified I C) thick sed	ollowing paleoclimatic evidence s e Southern Hemisphere? South Africa and South America oess deposits in the deserts of Chi iments in the Amazon and Congo er fossils in the deep-water sedim A) B) C) D)	ile, Australia, and Africa deltas of South America and	d Africa	26)
A) crust, ma B) basalt, cr C) lithosphe	deepest, the primary <i>compositional</i> ntle and core ust, mantle, asthenosphere, core re, asthenosphere, mesosphere, o ary, metamorphic and igneous A) B) C) D)	-		27)

A) iron-nicke C) granite Answer: A Explanation:	a of the core of Earth is thought to be I alloy A) B) C) D)	B) peridotite D) basalt		28)
A) lithosphere Answer: C Explanation:	thought to be the only molten, metal e B) mantle A) B) C) D)	lic portion in the Earth's in C) outer core	terior. D) inner core	29)
A) inner core Answer: B Explanation:	oout 100 km thick, is the coldest, mos B) lithosphere A) B) C) D)	st rigid, and most brittle la <u>v</u> C) mesosphere	yer in the Earth. D) asthenosphere	30)
 A) vast areas of B) plumes of of C) the boundare D) white polare Answer: A Explanation: A 	from beyond the moon's orbit, the n of ocean and swirling cloud patterns erupting volcanoes aries between the continents and the r ice caps, green rain forests and brow A) B) C) D)	oceans		31)
A) Indigenous Answer: D Explanation:	orm by crystallization and consolida s B) Primary A) B) C) D)	tion of molten magma. C) Sedimentary	D) Igneous	32)
A) crust Answer: C Explanation:	ere is actually a part of the B) outer core A) B) C) D)	of the Earth. C) mantle	D) inner core	33)

	y short geologic history for Earth. itarianism	nd early 18th centuries, was based on a firm B) Catastrophism D) Ecospherism	34)
 A) People for Hercular B) It is made C) The city people. D) It is construction 	neum in AD 79. le of very steep unstable ash deposits th	ype of ash eruptions that buried Pompeii and nat are always generating landslides. it so that any renewal of activity threatens	35)
Answer: C Explanation:	A) B) C) D)		
A) beneath B) only to v C) deep inte	al crust extends about half of the ocean basins whereve vhere their shorelines occur; beyond th o the mantle wherever there are subduc the continental shelf through to the toe	at is oceanic crust ction zones	36)
Answer: D Explanation:	A) B) C) D)		
37) The most pror A) oceanic r C) seamour		he B) Iava plateaus D) deep-ocean trenches	37)
Answer: A Explanation:	A) B) C) D)		
A) 30° south	Wegener, where was southern Africa Io n of the equator e north pole A) B) C) D)	ocated during the Late Paleozoic? B) over the south pole D) along the equator	38)

39) New seafloor i A) hot spot Answer: C	s created at _	plate bounda B) transform	ries. C) divergent	D) convergent	39)
Explanation:	A) B) C) D)				
-		0 0 1	at describes the formation o	of the Sun, Earth, and	40)
other planets o A) solar flar Answer: B Explanation:	5	/stem. B) nebular	C) planoassemblar	D) astrostellar	
A) evaporat B) the pull o C) the drag	ion of the Moon's	open water and water	's interaction with the shor	eline and sea bed	41)
Explanation:	A) B) C) D)				
burning fossil A) are all in B) mainly a C) have littl	fuels, and di herently evil ffect the lanc e influence b	sposing of garbage and must cease at any Iscape but not the phy Peyond their immediat	r cost sical environment, weathe	r or ocean	42)
Answer: D Explanation:	A) B) C) D)				
1842 and is not A) gold in P B) sandston C) granites	ted for his ok rince Edwar es in Nunav in Saskatche	oservations and maps of d Island ut		cal Survey of Canada in	43)
Answer: D Explanation:	A) B) C)				

C) D)

A) turbidite	. <u> </u>	B) soils	C) debitage	D) sediments	
Answer: D		,	, 5	,	
Explanation:	A)				
	B)				
	C)				
	D)				
soil, metallic, A) the cond B) the size C) the curre	non-metall itions of for of deposits ent corpora	ic, and energy resourc rmation and the envir and cost	ronmental impact e and most expedient means	-	45)
Answer: A					
Explanation:	A)				
-	B)				
	C)				
	D)				
-		its, is closes	to the same geographic pos	sition it occupied during	46)
the Late Paleo	zoic.				
A) India		B) Australia	C) Antarctica	D) South America	
Answer: C					
Explanation:	A)				
	B)				
	C)				
	D)				
		o calculate that the Ea	rth was created in 4004 B.C.		47)
A) Saint To	rquemada	o calculate that the Ea	B) Father Hutton		47)
	rquemada	o calculate that the Ea			47)
A) Saint To C) Bishop U Answer: C	rquemada	o calculate that the Ea	B) Father Hutton		47)
A) Saint To C) Bishop L	rquemada Jssher A)	o calculate that the Ea	B) Father Hutton		47)
A) Saint To C) Bishop U Answer: C	rquemada Jssher A) B)	o calculate that the Ea	B) Father Hutton		47)
A) Saint To C) Bishop U Answer: C	rquemada Jssher A) B) C)	o calculate that the Ea	B) Father Hutton		47)
A) Saint To C) Bishop U Answer: C	rquemada Jssher A) B)	o calculate that the Ea	B) Father Hutton		47)
A) Saint To C) Bishop U Answer: C Explanation: () was A) Late Pale B) Geometr C) The Glos	rquemada Jssher A) B) C) D) never prop eozoic glaci ic fit betwe ssopteris flo	osed as evidence sup al features een South America an ora	B) Father Hutton D) Brother Lyell porting the existence of the I d Africa		47)
A) Saint Tor C) Bishop U Answer: C Explanation: () was A) Late Pale B) Geometr C) The Glos D) Islands c	rquemada Jssher A) B) C) D) never prop eozoic glaci ic fit betwe ssopteris flo	osed as evidence sup ial features een South America an	B) Father Hutton D) Brother Lyell porting the existence of the I d Africa		
A) Saint To C) Bishop U Answer: C Explanation: () was A) Late Pale B) Geometr C) The Glos D) Islands o Answer: D	rquemada Jssher A) B) C) D) never prop eozoic glaci ic fit betwe ssopteris flo of Proterozo	osed as evidence sup al features een South America an ora	B) Father Hutton D) Brother Lyell porting the existence of the I d Africa		
A) Saint Tor C) Bishop U Answer: C Explanation: () was A) Late Pale B) Geometr C) The Glos D) Islands c	rquemada Jssher A) B) C) D) never prop eozoic glaci ic fit betwe ssopteris flo of Proterozo A)	osed as evidence sup al features een South America an ora	B) Father Hutton D) Brother Lyell porting the existence of the I d Africa		
A) Saint To C) Bishop U Answer: C Explanation: () was A) Late Pale B) Geometr C) The Glos D) Islands o Answer: D	rquemada Jssher A) B) C) D) never prop eozoic glaci ic fit betwe ssopteris flo of Proterozo	osed as evidence sup al features een South America an ora	B) Father Hutton D) Brother Lyell porting the existence of the I d Africa		

49) In geologic the	ory, volcanic eruptions, earth	nquakes, landslides, floods, and tsunamis are all	49)
B) unique p C) exceptior	inishments sent to discourage henomena that can neither be is to the theory of uniformita recurring geologic hazards f	e predicted nor understood	
Answer: D Explanation:	A) B) C) D)		
A) lakes and C) the ocear			50)
Answer: C Explanation:	A) B) C) D)		
time B) a large, o C) a large, P Proterozo	ountain range that formed w cean basin that opened in the recambrian shield area in Afi pic Eon	when Africa pushed northward into Europe in Eoc e Triassic and closed in the Paleocene rica and South America that broke apart late in th ate Paleozoic and broke apart in Triassic time	
Answer: D Explanation:	A) B) C) D)	·	
52) is oft A) Biblical p C) Catastrop		nt is the key to the past." B) Uniformitarianism D) Aristotelian logic	52)
Answer: B Explanation:	A) B) C) D)		
	_ years as determined by usir	but 14 billion years, the currently accepted age of E ng radioactivity for dating rocks and minerals. d C) 5.4 million D) 4.6 billion	

54) Tethys was ____

A) a huge mountain range formed when Africa pushed northward into Europe in Eocene time

B) a super continent that formed in the late Paleozoic and broke apart in Triassic time

C) a large, ocean basin that opened in the Triassic and closed in the Paleocene

D) a large, Precambrian shield area in Africa and South America that broke apart late in the Proterozoic Eon

Answer: C

- Explanation: A) B)
 - C)
 - D)

55) "The present is the key to the past" is the uniformitarian concept that ______.

- A) the rates of geologic processes (erosion, sedimentation, volcanism) are invariant
- B) geologic processes give rise to the same types of products and features
- C) each mountain that is eroding today to produce river sediment has always done so
- D) rivers, seas, mountains, etc. are perpetual features of an unchanging landscape

Answer: B

- Explanation: A)
 - B)
 - C)
 - D)

A) magma		B) vesuvianite	C) ignimbrite	D) obsidian
Answer: A				
Explanation:	A)			
	B)			
	C)			
	D)			

- - A) land plants, insects, marine plants, trilobites, humans
 - B) multicelled organisms, hardbodied marine invertebrates, first land plants, dinosaurs, mammals
 - C) one-celled organisms, first fishes, first amphibians, reptiles, dinosaurs
 - D) flowering plants, birds, reptiles, first trees, first fishes, blue green algae

Answer: B

- Explanation: A)
 - B)
 - C)
 - D)

54)

55)

58) The ______ proposes that the bodies of our solar system formed at essentially the same time from 58) a rotating cloud of gases and dust. A) Heliocentric theory B) Nebular hypothesis D) Plate Tectonics theory C) Big Bang theory Answer: B Explanation: A) B) C) D) 59) The idea that all of the tremendous geologic changes in Earth's history were concentrated in a few 59) brief millennia is termed _____. A) uniformitarianism B) Ussherism C) gradualism D) catastrophism Answer: D Explanation: A) B) C) D) 60) _____ includes the study of how rocks and minerals form and change according to physical, 60) chemical, and biologic processes which affect everything from Earth's internal structures and tectonic plates to landscape evolution and crystal forms. A) Manifest destiny B) Historical geology C) Teleology D) Physical geology E) Catastrophism Answer: D Explanation: A) B) C) D) E) 61) Earth's human population now is best described by which one of the following statements? 61) A) larger than it has ever been and increasing at a very high rate B) increasing very rapidly in advanced, western countries and falling rapidly in third-world areas such as Latin America and Africa C) larger than it has ever been but will stabilize within the next 10 years D) just beginning to approach the world's population before the Second World War Answer: A Explanation: A) B) C) D)

termed A) metamor		B) rudimentary	C) igneous	D) sedimentary	
Answer: A	1	,	, ,	,	
Explanation:	A)				
	B)				
	C)				
	D)				
) The world pop	oulation is	currently growing at abo	ut + people per	year.	63)
A) 10 millio	n	B) 10 billion	C) 100 million	D) 1 billion	
Answer: C					
Explanation:	A)				
	B)				
	C)				
	D)				
		ences between the discipl		0 00	64)
-		volves the study of rock s	-	-	
	-	geologic past; historical ge	eology charts how and w	here the plates were	
•	in the past.				
-		the study of fossils and s	-	historical geology is the	
		and minerals were used	in the past.		
C) HISIOFICA		in , a li , a a tha a study a fina a l	atrata fassila and asal		
		-	k strata, fossils, and geological and geology includes the stud		
geologic	time scale	as a reference; physical g			
geologic of how e	time scale rosion shap	as a reference; physical g pes the land surface.	eology includes the stud	y of how rocks form and	
geologic of how e D) None; pł	time scale rosion shap	as a reference; physical g	eology includes the stud	y of how rocks form and	
geologic of how e D) None; pł Answer: C	time scale rosion shaj rysical geo	as a reference; physical g pes the land surface.	eology includes the stud	y of how rocks form and	
geologic of how e D) None; pł	time scale rosion shap nysical geo A)	as a reference; physical g pes the land surface.	eology includes the stud	y of how rocks form and	
geologic of how e D) None; pł Answer: C	time scale rosion shap nysical geo A) B)	as a reference; physical g pes the land surface.	eology includes the stud	y of how rocks form and	
geologic of how e D) None; pł Answer: C	time scale rosion shap nysical geo A)	as a reference; physical g pes the land surface.	eology includes the stud	y of how rocks form and	
geologic of how e D) None; pł Answer: C Explanation:	time scale rosion shap nysical geo A) B) C) D)	as a reference; physical g bes the land surface. logy and historical geolog	eology includes the stud gy are essentially the san	y of how rocks form and	65)
geologic of how e D) None; pł Answer: C Explanation:) The	time scale rosion shap nysical geo A) B) C) D) refers to th	as a reference; physical g bes the land surface. logy and historical geolog e sum total of all life on E	eology includes the stud gy are essentially the san arth.	y of how rocks form and ne.	65)
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geologic of how e D) None; pł Answer: C Explanation:) The A) biospher Answer: A	time scale rosion shap nysical geo A) B) C) D) refers to th	as a reference; physical g bes the land surface. logy and historical geolog e sum total of all life on E	eology includes the stud gy are essentially the san arth.	y of how rocks form and ne.	65)
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geologic of how e D) None; pł Answer: C Explanation:) The A) biospher Answer: A Explanation:	time scale rosion shap nysical geo A) B) C) D) refers to th e A) B) C) D)	as a reference; physical g bes the land surface. logy and historical geolog e sum total of all life on E B) asthenosphere	eology includes the stud gy are essentially the san Garth. C) atmosphere	y of how rocks form and ne. D) hydrosphere	
geologic of how e D) None; pł Answer: C Explanation:) The A) biospher Answer: A Explanation:) Most geologic	time scale rosion shap nysical geo A) B) C) D) refers to th e A) B) C) D) D) processes	as a reference; physical g bes the land surface. logy and historical geolog e sum total of all life on E B) asthenosphere	eology includes the stud gy are essentially the san Carth. C) atmosphere	y of how rocks form and ne. D) hydrosphere	65)
geologic of how e D) None; ph Answer: C Explanation:) The A) biospher Answer: A Explanation:) Most geologic A) occur qu	time scale rosion shap nysical geo A) B) C) D) refers to th e A) B) C) D) processes ickly in fits	as a reference; physical g bes the land surface. logy and historical geolog e sum total of all life on E B) asthenosphere	eology includes the stud gy are essentially the san Carth. C) atmosphere on, uplift, and plate motion othing is happening	y of how rocks form and ne. D) hydrosphere	
geologic of how e D) None; pł Answer: C Explanation:) Thef A) biospher Answer: A Explanation:) Most geologic A) occur qu B) take plac	time scale rosion shap nysical geo A) B) C) D) refers to th e A) B) C) D) processes ickly in fits	as a reference; physical g oes the land surface. logy and historical geolog e sum total of all life on E B) asthenosphere like erosion, sedimentatic s and starts, but mostly no y but don't add up to mu	eology includes the stud gy are essentially the san Carth. C) atmosphere on, uplift, and plate motion othing is happening ch change in the long run	y of how rocks form and ne. D) hydrosphere	
geologic of how e D) None; pf Answer: C Explanation:) Thef A) biospher Answer: A Explanation:) Most geologic A) occur qu B) take plac C) take plac	time scale rosion shap nysical geo A) B) C) D) refers to th e A) B) C) D) processes ickly in fits re gradually	as a reference; physical g oes the land surface. logy and historical geolog e sum total of all life on E B) asthenosphere like erosion, sedimentatic s and starts, but mostly no y but don't add up to mu ataclysmic floods and vio	eology includes the stud gy are essentially the san Carth. C) atmosphere on, uplift, and plate motion othing is happening ch change in the long run lent upheavals that trans	y of how rocks form and ne. D) hydrosphere	
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geologic of how e D) None; ph Answer: C Explanation:) The A) biospher Answer: A Explanation:) Most geologic A) occur qu B) take plac C) take plac D) take plac Answer: D	time scale rosion shap nysical geo A) B) C) D) refers to the A) B) C) D) processes ickly in fits the gradually the gradually	as a reference; physical g oes the land surface. logy and historical geolog e sum total of all life on E B) asthenosphere like erosion, sedimentatic s and starts, but mostly no y but don't add up to mu ataclysmic floods and vio	eology includes the stud gy are essentially the san Carth. C) atmosphere on, uplift, and plate motion othing is happening ch change in the long run lent upheavals that trans	y of how rocks form and ne. D) hydrosphere	
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geologic of how e D) None; pf Answer: C Explanation:) Thef A) biospher Answer: A Explanation:) Most geologic A) occur qu B) take plac C) take plac D) take plac Answer: D	time scale rosion shap nysical geo A) B) C) D) refers to the A) B) C) D) processes ickly in fits the gradually the gradually	as a reference; physical g oes the land surface. logy and historical geolog e sum total of all life on E B) asthenosphere like erosion, sedimentatic s and starts, but mostly no y but don't add up to mu ataclysmic floods and vio	eology includes the stud gy are essentially the san Carth. C) atmosphere on, uplift, and plate motion othing is happening ch change in the long run lent upheavals that trans	y of how rocks form and ne. D) hydrosphere	

Wegener to hy A) Late Pale	t and animal fossils were identical for t pothesize Pangaea? cozoic and Early Mesozoic d Late Proterozoic A) B) C) D)	he southern hemisphere continents, causing B) Late Mesozoic and Early Cenozoic D) Hadean and Earliest Archean	67)
68) was f A) Charles F C) James Hu Answer: C Explanation:	5	t of uniformitarianism. B) Charles Darwin D) Sir James Ussher	68)
69) Fossils of armo	our headed fishes and trilobites would	be found in marine sedimentary rocks of	69)
A) the Prote C) the lower Answer: C Explanation:	rozoic Eon r part of the Paleozoic Era A) B) C) D)	B) the Mesozoic Era D) the Carboniferous Period	
A) crystalliz	y rocks, lithification includes ation and cooling fon and cementation A) B) C) D)	B) compaction and transportation D) cementation and weathering	70)
uniformitarian A) The num influence B) Sand roll C) Meteorite D) Mountain	ber of erupting volcanoes is constant th on changing climates. s along a stream bottom at the same ra e impacts always occur at regular inter	tes is most consistent with the idea of nroughout geologic time, so this is not a big te every hour, every day, year in, year out. vals and this has forced biologic evolution. hically one ion and one mineral grain at a time	71)

-	ive ages in	n establishes a layered sedimentary or any strata	volcanic sequence		72)
-	•	are always on top			
D) why the	oldest rock	ks are never found in the	bottoms of deep canyons		
Answer: A	• >				
Explanation:	A) B)				
	C)				
	D)				
73) Which one of t	the followi	ng statements is not corre	ect?		73)
A) Sedimen	itary rocks	may weather to igneous			·
-	•	s may melt to magma.			
-	-	e to form igneous rocks. undergo metamorphism.			
Answer: A					
Explanation:	A)				
	B)				
	C) D)				
	D)				
74) The natural ch A) weatheri		d mechanical decomposit B) decrepitation	ion of rocks at Earth's surfa C) de-lithification	ace is termed D) solifluction	74)
Answer: A	i g			Dy sonnaction	
Explanation:	A)				
	B)				
	C) D)				
	-				
		e for natural resource dev	elopment is		75)
A) the size of B) exponent	•		expectations for goods an	d profits	
		sits to meet each country's			
D) local nee	ds for emp	ployment and viable indu	stry		
Answer: B					
Explanation:	A) B)				
	Б) С)				

C) D) 76) What is the age of most of the continental crust, especially the exposed shield areas in continental 76) interiors? A) Precognition B) Younger than the ocean basins because it is still high C) Precambrian; with parts exceeding 4 billion years. D) Paleozoic and younger Answer: C Explanation: A) B) C) D) 77) In the rock cycle, the series of processes that transform unconsolidated sediment into sedimentary 77) rocks is termed A) compaction B) lithification C) cementation D) dewatering Answer: B Explanation: A) B) C) D) 78) _____ 78) The mantle is made of dense rock _____ called ____ A) $\sim 3.3 \text{ g/cm}^3$, peridotite B) <3.0 g/cm³, basalt C) <2.9 g/cm³, granite D) >3.4 g/cm³, shergottite Answer: A Explanation: A) B) C) D) 79) 79) Early during Earth's history what two things contributed heat that led to the internal melting and formation of the core? A) a hotter proto-sun and the burning off of Earth's early hydrogen atmosphere B) tidal forces and friction between moving unconsolidated meteorite debris C) chemical reactions between early unstable elements D) kinetic energy of impacts from nebular debris and decay of radioactive elements Answer: D Explanation: A) B) C) D) 80) 80) The word "Geology" is derived from Greek meaning _ A) rocks form all lands B) geographic theology C) the logic of rocks D) discourse of the Earth Answer: D Explanation: A) B) C) D)

81) Canada's highest mountain is ____ 81) A) Mount Waddington in the Coast Mountains of B.C. B) Mount Washington on Vancouver Island C) Mount Logan 5959 m elevation in the southwest corner of Yukon D) Mount Rundle in the Canadian Rockies Answer: C Explanation: A) B) C) D) 82) Which of the following best describes the fundamental concept of superposition? 82) A) Older strata generally are deposited on younger strata without intervening, intermediate age strata. B) Strata with fossils are generally deposited on strata with no fossils. C) Any sedimentary deposit accumulates on older rock or sediment layers. D) Older fossils in younger strata indicate a locally inverted geologic time scale. Answer: C Explanation: A) B) C) D) 83) _____ involves the study of Earth's origin and development through time based on sequences of 83) strata, fossils, and geologic events, utilizing the geologic time scale as a reference. A) Physical geology B) Uniformitarianism C) Catastrophism D) Historical geology Answer: D Explanation: A) B) C) D) 84) As a self-contained planet, Earth is divided into several interacting systems called ______. 84) A) the atmosphere, hydrosphere, geosphere, and biosphere B) the geosphere, atmosphere, cryosphere, and gaiasphere C) the solid earth, the liquid earth, the gaseous earth and the living planet D) the aerosphere, aquasphere, terrasphere, and ecosphere Answer: A Explanation: A) B) C) D) 85) Which of the following is closest to the currently accepted age of the Earth? 85) A) 5 billion years B) 100,000 years C) 5 million years D) 10 billion years Answer: A Explanation: A) B) C) D)

86) The term igneous is ____

A) Armenian for "containing many crystals"C) Greek for "full of fire"

Answer: C

Explanation: A)

- B)
 - C) D)
- 87) Why did Sir Edward Bullard's 1960's fit of the 900 m bathymetric contour show some areas of overlap between South America and Africa ?
 - A) The work was actually done by a graduate student and Bullard never checked the details before he published it.
 - B) Massive erosion has modified the entire coastlines since 200 Ma so it is a wonder they still fit so well.
 - C) Large volumes of sediment have accumulated in the deltas and fans from the Congo, Amazon, Parana, and Rio de Plata rivers to outbuild the continental shelves and slopes.
 - D) Inaccurate bathymetry was all that was available to him prior to our modern multibeam sonar techniques.

Answer: C

Explanation: A) B)

> C) D)

88) The early geologic process that formed the primitive: atmosphere, crust, mantle and core within the 88) first few million years of Earth history was ______.

A) meltdown

C) absolution

B) stratification

D) chemical differentiation or segregation

Answer: D

Explanation: A) B) C)

89) The Earth's core was formed from ____

D)

A) a massive nickle iron asteroid that was the nucleus upon which Earth condensed

B) the left over nickle and iron that would not fit into the earlier formed crust and mantle

C) high density radioactive carbon

D) molten iron and nickle that separated from silicates and sank due to its higher density

Answer: D

- Explanation: A)
 - B)
 - C)
 - D)

89)

86)

87)

B) Polish for "rock that flows"D) Latin for "rock from below"

90) On the averag A) 10 km	e, lithospher	ic plates are B) 1000 km	thick. C) I km	D) 100 km	90)
Answer: D Explanation:	A) B) C) D)				
A) Earth's e B) physical processe C) mankinc D) ongoing Answer: D	volution wit processes th s I and the env natural proc	at affect the earth a	nd its resources as oppose	d to chemical or biologic	91)
Explanation:	A) B) C) D)				
92) The A) geospher Answer: D Explanation:	-	of the Earth's physic B) hydrosphere	cal environment. C) atmosphere	D) astrosphere	92)
properties are A) crust, ma B) sedimen C) basalt, cr	antle, core tary, metam ust, mantle,	orphic, igneous asthenosphere, core	hin the Earth as defined by	contrasting physical	93)
	st environme on cycle		e can transform to another t does so, is called B) the tricycle D) the uniformita		94)

95) Paleontologic evidence for sub-polar, fossil fern with of: Africa, Australia, India A) Mesosaurus C) Halitosis Answer: B Explanation: A) B) C) D)	large seeds that was w		out the Late Paleozoic	95)
96) The oceanic crust is made A) granite, 35-40 km C) basalt, 70 km Answer: B Explanation: A) B) C) D)	of mafic rock called	and is about B) basalt, 7 km D) marine sediment	_	96)
97) The division of t A) Proterozoic Answer: C Explanation: A) B) C) D)	he geologic time scale i B) Permian	s an era of the Phanerozo C) Paleozoic	ic Eon. D) Paleocene	97)
 B) Reduced governmen increase living stand 	and marine habitats will at regulation and spend ards and lessen environ e much more fun becau	I be unaffected by the rap ing and the application o nmental concerns. se parties will be larger a	bid growth. f new technologies will	98)
99) Older mountain belts are f thickened, low density cru rocks from deep in the cru A) the Aleutians C) the Cascades Answer: D Explanation: A) B) C) D)	ust like in whe		eformed Precambrian Ridge	99)

100)	100) The two layers inside the Earth which contain significant amounts of molten material areA) crust and inner coreB) crust and mesosphereC) asthenosphere and outer coreD) mesosphere and inner core					100)	
	Answer: C						
	Explanation:	A) B) C) D)					
101)) Wegener's sup A) Rodinia	percontinent	that began to break u B) Gondwanaland	p about 200 million years ag C) Pangaea	o was named D) Laurasia	101)	
	Answer: C Explanation:	A) B) C) D)					
102)	A) the segm B) all of the C) the first {	ent of geolo periods afte 3% of Earth	gic time prior to unifo er the Permian	ozoic Eons) accounts for ormitarianism taking effect ogic time scale		102)	
	Answer: D Explanation:	A) B) C) D)					
103)				at was found both in eastern former land connection.	South America and	103)	
	A) Glossopt Answer: B Explanation:		B) Mesosaurus	C) Anomalocaris	D) Arbustosaurus		
104)) The inference	that the Earl	h had been created in	4004 B.C. was attributed to	James Ussher who	104)	
	B) had this C) carefully	revealed to	st to first attempt abso him by the Archangel e generations and "beg pot whom nobody be	Gabriel in a divine dream gats" in the Bible			
	Answer: C Explanation:	A) B)					

- C) D)

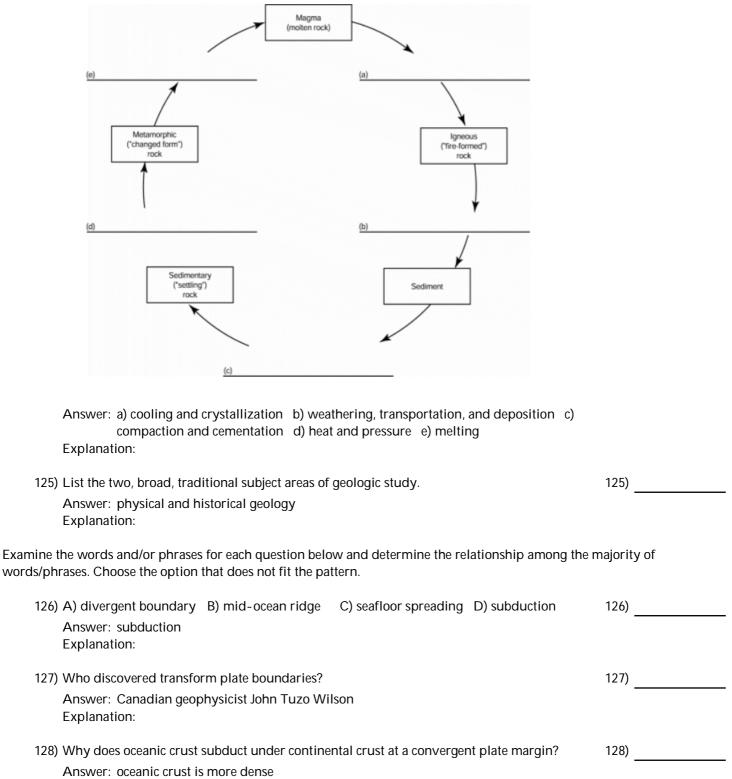
105) are tl	he places where	most sediments a	e ultimately deposited.		105)
A) Dunes	E) Swamps	C) Oceans	D) Floodplains	
Answer: C					
Explanation:	A)				
	B)				
	C)				
	D)				
106) The Mantle ex	tends from < 10	0 km to about	and is bounded at bo	oth its top and bottom by	106)
A) 290 km, 1	the asthenosphe	re			
			but contrasting temperate	ure	
	ayers of molten				
	layers of mark	edly different chen	nical composition		
Answer: D Explanation:	۸)				
Explanation.	A) B)				
	C)				
	D)				
between 300 a A) tropical p B) massive C) massive D) tropical f and cent	nd 220 million y paleosols and la reef limestones crossbedded ree	years ago? terites in Antarctic in Alberta and the d sandstones sugge		erts	107)
Answer: D Explanation:	A)				
	А) В)				
	C)				
	D)				
108) In the early pa A) Alfred th C) Edwin R Answer: B Explanation:	ne Great	ntury, ar	gued forcefully for contine B) Alfred Wegener D) Karl Wagner		108)

109) The San Andreas fault in California and the Alpine fault in New Zealand are good examples of

109)

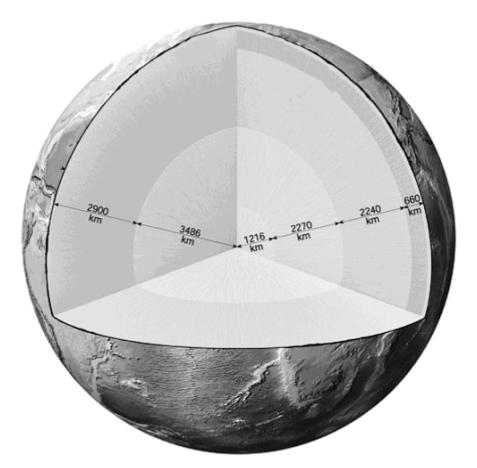
B) emergen C) transform	t oceanic crust t ocean basins n faults that cut continental c nt margins between oceanic			
Answer: C				
Explanation:	A) B) C) D)			
A) entirely b B) and relat C) averagin	generally lower in elevation because of the great weight o ively featureless due to flat s g about 380 metres below sea ains prominent ridges, chains A) B) C) D)	f the overlying sea wat eafloor and sediments a level	that drape everything	110)
SHORT ANSWER. Wri	te the word or phrase that be	est completes each stat	tement or answers the qu	estion.
Answer: weak	nternal layers that are capab partially molten asthenosph ely liquid.			111)
	or phrases for each question h ne option that does not fit the		he relationship among the	majority of
112) A) Big Bang Answer: Big B Explanation:	B) solar nebula ang	C) protosun	D) protoplanets	112)
113) A pyroclastic f	low contains			113)
Answer: rock, Explanation:	ash, and gas			
	basic categories of rocks as do bus, sedimentary, metamorph	-	<u>).</u>	114)
115) What type of r Answer: sedir Explanation:	ock comprises most of the ex nentary	posed surface of Earth	(roughly 75%)?	115)

116)	The states that	116)			
	determinable order. Answer: principle of fos Explanation:				
117)	The is the weal	k zone in the mantle be	low the lithosphere.		117)
	Answer: asthenosphere Explanation:				
	he words and/or phrases rases. Choose the option t			lationship among the m	ajority of
118)	A) hydrosphere	B) stratosphere	C) atmosphere	D) geosphere	118)
	Answer: stratosphere Explanation:				
119)	A) catastrophism	B) relative dating	C) superposition	D) fossil succession	119)
	Answer: catastrophism Explanation:				
120)	The thin, outer layer of E	Earth, from 7 to 40 km i	n thickness, is called the	2	120)
	Answer: crust Explanation:				
	he words and/or phrases rases. Choose the option t	•		lationship among the m	najority of
121)	A) East Pacific	B) Mid-Atlantic	C) Peru-Chile	D) Mid-Indian	121)
	Answer: Peru-Chile Explanation:				
122)	The is the solid	l, rocky shell between t	he crust and outer core.		122)
	Answer: mantle Explanation:				
123)	List three possible ways		d have travelled from o	ne continent to	123)
	another in the distant ge	S 1	an isthmus 2) island h	opping or A	
	Answer: any three: 1) rafting, 2) land links like an isthmus, 3), island hopping, or 4) continental rifting and drifting since they were all together Explanation:				



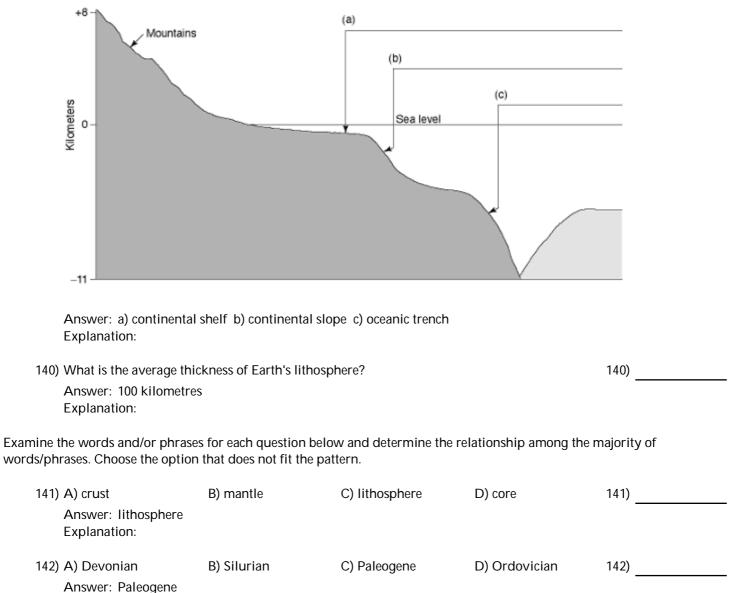
124)

129) What is the estimat	129)			
Answer: 6700 degr Explanation:	ees Celsius			
Examine the words and/or ph words/phrases. Choose the op	•		he relationship among	the majority of
130) A) Cretaceous	B) Cambrian	C) Jurassic	D) Triassic	130)
Answer: Cambrian Explanation:	1			
131) The convective flow magnetic field.	v of liquid, metallic iror	n in the is tho	ught to generate Earth's	131)
Answer: outer core Explanation:	2			
132) Sea-floor spreadin Answer: divergent Explanation:	•	undaries.		132)
133) What is the average	e density of continental per cubic centimetre	crust?		133)
Explanation:				



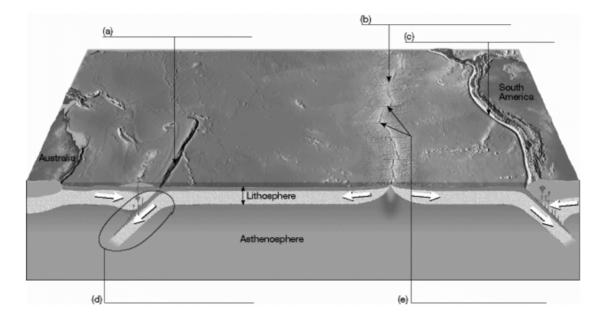
Answer: See figure 1.19 Explanation:

135) -	The mass of relatively cool air held by gravity to surround the Earth is called the	135)
	Answer: atmosphere	
I	Explanation:	
136) /	A comprehensive theory held with high confidence and respect is called a	136)
	Answer: paradigm	
I	Explanation:	
	What were Wegener's three main lines of evidence to support his continental drift hypothesis?	137)
	Answer: any three: 1) the fit of Africa and South America's coasts, 2) wide geographic distribution of fossils, 3) rock structures like mountain belts, 4) ancient climates	
I	Explanation:	
	The statement "the present is the key to the past," describes what basic geologic concept or doctrine?	138)
	Answer: uniformitarianism	
I	Explanation:	



Explanation:

143) Fill in the blanks with the correct name of the feature that is labelled.



Answer: a) oceanic trench b) oceanic ridge c) oceanic trench d) subduction zone e) transform faults

Explanation:

Examine the words and/or phrases for each question below and determine the relationship among the majority of words/phrases. Choose the option that does not fit the pattern.

144)	A) Alfred Wegener	B) Pangaea	C) T. Rex	D) Mesosaurus	144)
	Answer: T. Rex				
	Explanation:				
145)	When was our planet of	created, according to	James Ussher?		145)
	Answer: 4004 B.C.				
	Explanation:				
146)) The is the la	iyer between Earth's i	rigid crust and its larg	gely liquid core.	146)
	Answer: mantle				
	Explanation:				
147)) Who was Canada's firs	st director of its Geolo	ogical Survey?		147)
	Answer: Canadian-bo Explanation:	orn and knighted geol	logist, Sir William Log	gan	
	the words and/or phras arases. Choose the optio			the relationship among th	ne majority of
148)	A) lithosphere	B) asthenosphere	C) mesosphere	D) atmosphere	148)
	Answer: atmosphere				
	Explanation:				

149)	During the first quarter of the twentieth century, was	the most vigorous	149)
	proponent of continental drift. Answer: Alfred Wegener		
	Explanation:		
150)	The is the relatively rigid zone above the asthenosphe and upper mantle.	re that includes the crust	150)
	Answer: lithosphere Explanation:		
151)	Extending from the shoreline towards the deep-ocean basin, th include the,, and the	e continental margin may	151)
	Answer: continental shelf, continental slope, continental rise Explanation:		
152)	How old is our planet thought to be from a scientific viewpoint	?	152)
	Answer: 4.6 billion years Explanation:		
153)	The hypothesis suggests that the bodies of our solar rotating cloud of hydrogen and helium.	system evolved from a	153)
	Answer: nebular Explanation:		
154)	At a boundary, the two plates are moving towards on	e another.	154)
	Answer: convergent Explanation:		
155)	The San Andreas fault in California is a good example of a	plate boundary.	155)
	Answer: transform Explanation:		
	the words and/or phrases for each question below and determine rases. Choose the option that does not fit the pattern.	e the relationship among the m	ajority of
156)	A) Cenozoic B) Mesozoic C) Paleozoic	D) Hadean	156)
	Answer: Hadean Explanation:		
157)	List the three types of plate boundaries.		157)
	Answer: divergent, convergent, transform Explanation:		
158)	What is the average density of oceanic crust?		158)
	Answer: 3.0 grams per cubic centimetre Explanation:		

Examine the words and/or phrases for each question below and determine the relationship among the majority of words/phrases. Choose the option that does not fit the pattern.

159)	A) sedimentary Answer: mantle Explanation:	B) igneous	C) metamorphic	D) mantle	159)	
160)	Answer: Meteorolog	gener's academic training ist, working on present a ce Sheet and Late Paleoz	nd past glacial climates,	specifically the	160)	
161)	A conservative plate boundary. Answer: transform Explanation:	boundary where two pla	tes slide laterally in opp	osite directions is a	161)	
TRUE/FA	LSE. Write 'T' if the	statement is true and 'F'	if the statement is false.			
162)	The diameter and sur seafloor spreading.	face area of the Earth gra	adually increase as new a	seafloor is produced by	162)	
	Answer: True Explanation:	False				
163)		book in 1915 called "The training and profession w False			163)	
164)	Where oceanic and continental plate.	ontinental plates converg	e, the denser, oceanic pl	ate sinks beneath the	164)	
	Answer: O True Explanation:	False				
165)		eistocene glaciation cover merica with a continenta Palse			165)	
166)	The oldest rocks on the Answer: • True Explanation:	ne seafloor are much you False	nger than the oldest rock	ks on the continents.	166)	
167)	-	v cut across oceanic lithos False	sphere where ridge syste	ems are offset.	167)	

168)	Because of the r area.	nearly 70	0,000 km of spreading ridges the Earth is gradually increasing in surface	168)
	Answer: Tru Explanation:	ie 🧧	False	
169)			r Pangaea was tenuous as the giant crocodillian, Mesosaurus, could have h America to Africa.	169)
	Answer: Tru Explanation:	ie 📀	False	
170)	Subduction zon	es are u	sually associated with oceanic ridge systems.	170)
	Answer: Tru Explanation:	ie 🥝	False	
171)	processes and a	short ti	ntury textbook emphasized the importance of catastrophic geologic me span for the whole of Earth's geologic history.	171)
	Answer: Tru Explanation:	ie 📀	False	
172)	of gases and du	st about	ar hypothesis, all of the bodies in the universe evolved from a rotating cloud t 5 billion years ago.	172)
	Answer: Tru Explanation:	ie 📀	False	
173)	-	-	laciation, southern Africa was situated over the South Pole.	173)
	Answer: • Tru Explanation:	le	False	
174)	•		ycle, any type of rock (igneous, sedimentary, or metamorphic) may be er type of rock, given enough time.	174)
	Answer: • Tru Explanation:	le	False	
175)	The mantle is a Answer: Tru		molten metal, mainly iron, that surrounds the inner core. False	175)
	Explanation:		Faise	
176)	According to W sub-tropical.	'egener,	the Late Paleozoic climate favoured by the Glossopteris ferns was	176)
	Answer: Tru Explanation:	ie 📀	False	
177)	The lithosphere composition.	, asthen	osphere, and mesosphere are all layers of Earth defined by their	177)
	Answer: Tru Explanation:	ie 📀	False	
178)	Cooling away fi	rom the	ridge causes the oceanic lithosphere to strengthen and thicken.	178)
	Answer: <a>Classifier True Explanation:	le	False	

179) Oceans cover slightly less than half of the Earth's surface.	179)
Answer: True 🔮 False Explanation:	
 180) The Second World War caused a steep decline in the post-war rate of world population growth. Answer: True False Explanation: 	180)
 181) Internally, the Earth consists of spherical shells with different compositions and densities. Answer: True False Explanation: 	181)
182) The doctrine of uniformitarianism implies that the current forces and processes shaping the Earth have been operating for a very long time.	182)
Answer: • True False Explanation:	
 183) The law of superposition applies primarily to sedimentary rocks and lava flows. Answer: True False Explanation: 	183)
184) Because of plant fossil similarities, by the early part of the twentieth century, most paleontologists were in agreement that some sort of land connection existed between the southern continents during the Late Paleozoic and Early Mesozoic Eras.	184)
Answer: • True False Explanation:	
185) There is little feedback or interaction between Earth's various spheres and systems.	185)
Answer: True 🔮 False Explanation:	
186) The doctrine of uniformitarianism implies that Earth's geologic history took place over a relatively short time span.	186)
Answer: True 🔮 False Explanation:	
187) The asthenosphere is a relatively cool and rigid shell that overlies the lithosphere.	187)
Answer: True 🔮 False Explanation:	
188) During subduction, oceanic lithosphere descends into the asthenosphere.	188)
Answer: O True False Explanation:	
189) The currently accepted age of Earth is approximately 4.6 million years.	189)
Answer: 🔮 True False Explanation:	

190) William Logan was Canada's first official geologist. 19			
Answer: O True False Explanation:			
191) Igneous rocks are produced largely by the deposition and consolidation of surface materials like sand and mud.	191)		
Answer: True 🔮 False Explanation:			
192) Shields occur in stable interior regions of continents.	192)		
Answer: O True False Explanation:			
193) Seafloor spreading is the dominant process at convergent plate margins.	193)		
Answer: True 🛛 False Explanation:			
194) The mantle and crust have about the same thickness.	194)		
Answer: True 🕑 False Explanation:			
195) In general, rocks of the continental crust are less dense than rocks of the oceanic crust.	195)		
Answer: O True False Explanation:			

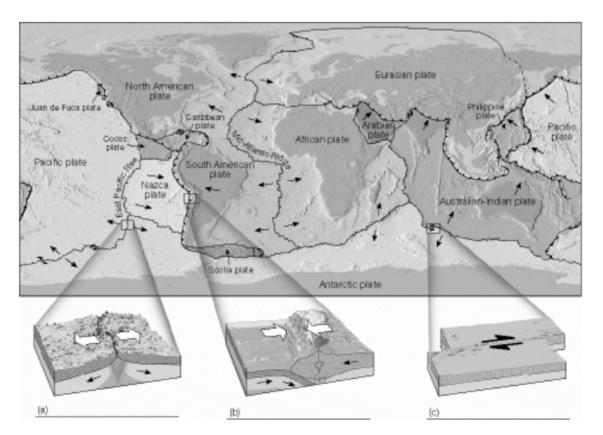
ESSAY. Write your answer in the space provided or on a separate sheet of paper.

Use complete sentences, correct spelling, and the information presented in Chapter 1 to answer the question(s) below.

- 196) Catastrophism obviously influenced seventeenth and eighteenth century thought by implying that Earth only needed to be a few thousand years old to explain landscapes and geologic features. However, catastrophic and often sudden changes are at least a part of the rock record that geologist's attempt to interpret. List three geologic catastrophes that would most likely affect landscapes or features on Earth and explain how they get recorded in rocks.
 - Answer: 1) Earthquakes leave faults and tsunami deposits preserved in the rock record. 2) Landslide deposits are found in the rock record. 3) Volcanic eruptions leave lava flows and ash layers.

197) In the diagram below, match the letter of each illustration to the correct type of plate boundary.

a) transform b) divergent c) convergent



Answer: (a) b (b) c (c) a

Use complete sentences, correct spelling, and the information presented in Chapter 1 to answer the question(s) below.

- 198) Given our current knowledge of plate tectonics, is Hapgood's "Earth crust displacement" theory of large lateral crustal movements over 5000 years valid? Explain.
 - Answer: No. Plate movements average 5 cm/year which takes millions of years for noticeable lateral displacements.
- 199) Aside from near oceanic trenches, most earthquakes originate at depths of 100 kilometres or less. Considering the physical properties of Earth's interior, what type of mechanical behavior (in rocks) must be necessary for earthquakes to occur? Explain.

Answer: Brittle deformation which occurs when Earth's crust breaks during earthquakes.

- 200) Considering the discussion of the Nebular hypothesis regarding the origin of our solar system, what is the likelihood that plate tectonics is a viable model for processes operating on other planets? Are certain planets more likely than others to exhibit plate movements and why might plate tectonics not currently be active on those planets?
 - Answer: Plate tectonics require convection in hot, dense planet interiors. Because planets in our solar system formed by gravitational accretion (heavier elements moving toward the centre according to the Nebular hypothesis), it is likely that the heavier planets experience interior radioactive heat generation, convection and plate tectonics. Smaller, lighter planets probably cooled and solidified with no internal radioactive heat or convection currently being generated.

Answer Key		
Testname: C1		
restname. Cr		
1) C		
1) C		
2) B		
3) D		
4) C 5) D		
6) A		
7) A		
8) A		
9) B		
10) B		
11) C		
12) D		
13) D		
14) D		
15) A		
16) C		
17) D		
18) D		
19) D		
20) A		
21) D		
22) C		
23) D		
24) A		
25) A		
26) A 27) A		
28) A		
29) C		
30) B		
31) A		
32) D		
33) C		
34) B		
35) C		
36) D		
37) A		
38) B		
39) C		
40) B		
41) C		
42) D 43) D		
43) D 44) D		
44) D 45) A		
46) C		
47) C		
48) D		
49) D		
50) C		

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Answer				
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51) D				
51) B				
52) D				
53) D 54) C				
55) B				
56) A				
57) B				
58) B				
59) D				
60) D				
61) A				
62) A				
63) C				
64) C				
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72) A 73) A				
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75) B				
76) C				
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78) A				
79) D				
80) D				
81) C				
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83) D				
84) A				
85) A 86) C				
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89) D				
90) D				
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92) D				
93) D				
94) C				
95) B				
96) B				
97) C				
98) D				
99) D 100) C				
100) C			28	
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Answer Key Testname: C1

- 101) C 102) D
- 103) B
- 104) C
- 105) C
- 106) D
- 107) D
- 108) B
- 109) C
- 110) D
- 111) weak partially molten asthenosphere and hot solid mesosphere. The outer core is entirely liquid.
- 112) Big Bang
- 113) rock, ash, and gas
- 114) igneous, sedimentary, metamorphic
- 115) sedimentary
- 116) principle of fossil succession
- 117) asthenosphere
- 118) stratosphere
- 119) catastrophism
- 120) crust
- 121) Peru-Chile
- 122) mantle
- 123) any three: 1) rafting, 2) land links like an isthmus, 3), island hopping, or 4) continental rifting and drifting since they were all together
- 124) a) cooling and crystallization b) weathering, transportation, and deposition c) compaction and cementation d) heat and pressure e) melting
- 125) physical and historical geology
- 126) subduction
- 127) Canadian geophysicist John Tuzo Wilson
- 128) oceanic crust is more dense
- 129) 6700 degrees Celsius
- 130) Cambrian
- 131) outer core
- 132) divergent
- 133) 2.7 grams per cubic centimetre
- 134) See figure 1.19
- 135) atmosphere
- 136) paradigm
- 137) any three: 1) the fit of Africa and South America's coasts, 2) wide geographic distribution of fossils, 3) rock structures like mountain belts, 4) ancient climates
- 138) uniformitarianism
- 139) a) continental shelf b) continental slope c) oceanic trench
- 140) 100 kilometres
- 141) lithosphere
- 142) Paleogene
- 143) a) oceanic trench b) oceanic ridge c) oceanic trench d) subduction zone e) transform faults
- 144) T. Rex
- 145) 4004 B.C.
- 146) mantle
- 147) Canadian-born and knighted geologist, Sir William Logan

Answer Key

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148) atmosphere 149) Alfred Wegener 150) lithosphere 151) continental shelf, continental slope, continental rise 152) 4.6 billion years 153) nebular 154) convergent 155) transform 156) Hadean 157) divergent, convergent, transform 158) 3.0 grams per cubic centimetre 159) mantle 160) Meteorologist, working on present and past glacial climates, specifically the Greenland Ice Sheet and Late Paleozoic glaciations of the southern hemisphere.. 161) transform 162) FALSE 163) TRUE 164) TRUE 165) FALSE 166) TRUE 167) FALSE 168) FALSE 169) FALSE 170) FALSE 171) FALSE 172) FALSE 173) TRUE 174) TRUE 175) FALSE 176) FALSE 177) FALSE 178) TRUE 179) FALSE 180) FALSE 181) TRUE 182) TRUE 183) TRUE 184) TRUE 185) FALSE 186) FALSE 187) FALSE 188) TRUE 189) TRUE 190) TRUE 191) FALSE 192) TRUE 193) FALSE 194) FALSE 195) TRUE

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- 196) 1) Earthquakes leave faults and tsunami deposits preserved in the rock record. 2) Landslide deposits are found in the rock record. 3) Volcanic eruptions leave lava flows and ash layers.
- 197) (a) b (b) c (c) a
- 198) No. Plate movements average 5 cm/year which takes millions of years for noticeable lateral displacements.
- 199) Brittle deformation which occurs when Earth's crust breaks during earthquakes.
- 200) Plate tectonics require convection in hot, dense planet interiors. Because planets in our solar system formed by gravitational accretion (heavier elements moving toward the centre according to the Nebular hypothesis), it is likely that the heavier planets experience interior radioactive heat generation, convection and plate tectonics. Smaller, lighter planets probably cooled and solidified with no internal radioactive heat or convection currently being generated.