Name /test-b a		nttps://selldocx.com/ ı-earth-explor ନ୍ଧିକୃ ଷ୍ଣed	products logy-and-evolution-7e-Wiotander e:
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1. Mobile belts form	when convergent plat	e margins develop.	
	a.	True	
	b.	False	
ANSWER:			True
2. The Appalachian a	nd Ouachita mountain	ns represent ancient mobile	e belts.
	a.	True	
	b.	False	
ANSWER:			True
3. Platform sedimenta	ary rocks are entirely	carbonate rocks.	
	a.	True	
	b.	False	
ANSWER:			False
4. Polar ice caps exist	ted through most of th	ne Cambrian.	
	a.	True	
	b.	False	
ANSWER:			False
5. During the Sauk tra	ansgression, the Trans	scontinental Arch was a hi	ghland estimated to be tens of thousands of feet high.
	a.	True	
	b.	False	
ANSWER:			False
6. After the Sauk Sea glaciation.	had regressed, the ex	posed surface of the North	American continent was subjected to extensive
	a.	True	
	b.	False	
AMGILLED			F 1

ANSWER: False

- 7. The boundary between the Tippecanoe and Sauk sequences is a vast unconformity with deep erosional relief.
 - a. True
 - False b.

ANSWER: True

- 8. The basal unit of the transgressive Kaskaskia sequence is marked by extensive black shale deposition. True
 - a.
 - b. False

ANSWER: False

- 9. The Taconic, Caledonian, and Acadian orogenies were all part of the same major orogenic event related to the closing of the Iapetus Ocean.
 - True a.

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		b.	False		
ANSWER:				True	
10 Terranes and	d microplates y	were part of th	ne formation of Pangaea.		
10. Terraires and	a interoplates	a.	True		
		b.	False		
ANSWER:				True	
11 are the sediments were	-	able and imm	obile parts of continents and	d form the foundation on which Phaneroz	zoic
	a.	Shields	1		
	b.	Platfor	ms		
	c.	Craton	S		
	d.	Epeiric	seas		
	e.	Oroger	nies		
ANSWER:					c
12. Each of the	maior continer	nts at the begi	nning of the Paleozoic had	two major components. These were a(n)	
a.	trough and	_	8	J 1	
b.	craton and	l a mobile bel	t		
c.	immobile	belt and a rift	margin		
d.	craton and	l a ocean basi	n		
e.	volcano a	nd a desert			
ANSWER:				t)
13. Rocks of the	e shield are				
a.	exclusively				
b.	exclusively	metamorphic			
c.	exclusively	sedimentary			
d.	primarily ig	neous and me	tamorphic		
e.	primarily ig	neous and sec	limentary		
ANSWER:				Ċ	1
14. Paleozoic pa	aleogeographic	e reconstruction	ons are based primarily on		
a		ic anomalies			
b	. volcani	c rocks			
c	. metamo	orphic assemb	lages		
d	l. structui	ral relationshi	ps		
e	. transgr	essive sequen	ces		
ANSWER:				Ċ	1
15. During the _	Period,		dwana moved over the Sou	th Pole, resulting in extensive glaciation.	
	a.	Permian			

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	ŀ		Carboniferous			
	c		Devonian			
	ć		Ordovician			
	e		Cambrian			
ANSWER:		·•	Camorian		1	b
16. Which o	of the follo	wing was i	aot a mobile belt a	around the North American con	tinent during the Paleozoic?	
10. Willeli c	7 1110 10110	a.	Franklin	around the recent runorisan con	ement during the Tureszore.	
		b.	Cordilleran			
		c.	Hercynian			
		d.	Ouachita			
		e.	Appalachian			
ANSWER:			11			c
17 What we	ere the gen	eral climat	ic conditions on t	he Paleozoic supercontinent (P	angaea)?	
17. What we	a.	arid	the conditions on t	ne i alcozole supercontinent (i	angaca):	
	b.	arid to s	emiarid			
	c.		d to subtropical			
	d.		ical to humid			
	e.	humid	iour to marma			
ANSWER:					1	b
10 In a sunt	:_		1			
18. III a crai	onic seque	a.	regressive	nly well-preserved?		
		а. b.	sedimentary			
		c.	transgressive			
		d.	evaporite			
		e.	epeiric			
ANSWER:		C.	еренте			c
mvon Lik.						C
19. Geologi	sts use seq	uence strat	igraphy most in w	what industry?		
		a.	petroleum			
		b.	coal			
		c.	uranium			
		d.	mapping			
		e.	gemstone			
ANSWER:						a
20. A crator	nic sequend	e is disting	guished by a			
a.	_		followed by regr	essive phase		
b.			llowed by a trans			
c.		e phase or		-		

d. transgressive phase only

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e. lacl	k of any sequence			
ANSWER:	J 1			a
21. Extensive the late Silurian.	were deposite	d as the Tippecanoe	e Sea gradually regressed	from the North American craton during
	a. sa	andstones		
	b. sł	nales		
	c. ve	olcanic rocks		
	d. ev	vaporites		
	e. li	mestones		
ANSWER:				d
22. Why are orga	nic reefs useful pa	aleoecological indic	ators?	
a. Organism	ns only form lime	stone reefs in cold, t	ropic waters.	
b. Organism	ns only form lime	stone reefs where th	ere is a great abundance	of mineral matter in the water.
c. Organism	ns only form limes	stone reefs in warm	clear, shallow water.	
d. Organism	ns in the modern v	vorld only form lim	estone reefs between 30 c	degrees north and south of the equator.
		rm limestone reefs i	n warm, clear, shallow w	ater, between 30 degrees north and
ANSWER:	the equator.			e
111 (2), 211.				-
23. The majority	of Kaskaskian ro	ks are		
	a.	shales		
	b.	carbonates		
	c.	sandstones		
	d.	volcanics		
	e.	metamorphic		
ANSWER:				b
24. The basal bed	ls of the Kaskaski	a Sequence are	_•	
a.	basalts		_	
b.	halite evapori	te beds		
c.	barrier reefs			
d.	shales			
e.	well-sorted qu	artz sandstones		
ANSWER:				e
25. By the end of	the Permian, the	Absaroka Sea had r	etreated from the craton.	exposing what type of deposits?
•	a.	evaporite	,	
	b.	black shale		
	c.	volcanic		
	d.	red bed		

e.

reef

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ANSWER:				d
26. What do cyc	clothems represe	ent?		
a.	volcanism			
b.	evaporation			
c.	transgressive	and regressive cycles		
d.	transgression	only		
e.	regression on	ly		
ANSWER:				c
27. Extensive o	il deposits exist i	in the Permian de	posits in Texas and New	Mexico.
	a.	reef	•	
	b.	sandstone		
	c.	shale		
	d.	phosphate		
	e.	volcanic		
ANSWER:				a
28. Uplift of the	e Ancestral Rock	ties occurred during the		
		ite Kaskaskia		
	b. Ea	arly Absaroka		
	c. La	nte Absaroka		
	d. Ea	arly Kaskaskia		
	e. M	iddle Devonian		
ANSWER:				c
29. What charac	cteristic feature o	of Pennsylvanian rocks of	listinguishes rocks of the	Absaroka sequence from those of the
		others in North America		-
	a.	cyclothems		
	b.	carbonates		
	c.	coal		
	d.	conodonts		
(MONTER	e.	chordates		
ANSWER:				a
30. What separa	ates one cyclothe	em from another in a seq	uence?	
	a. an ei	rosional surface		
	b. a boo	dy of water		
	c. a cra	nton		
	d. a mo	bile belt		
	e. a cla	stic wedge		
ANSWER:				a

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31. An idealized c	cyclothem is	characterized by which of the following sequences from bottom t	to top?
a. coal bed	ls, fluvial del	taic sediments, detrital shallow water marine, limestone	
b. limestor	ne, detrital sh	allow water marine, fluvial deltaic sediments, coal beds	
c. limestor	ne, detrital sh	allow water marine, coal beds, fluvial deltaic sediments	
		ents, coal beds, detrital shallow water marine, limestone	
	shallow wate	r marine, fluvial deltaic sediments, limestone, coal beds	
ANSWER:			d
32. Which orogen	y was the first	st pulse of mountain building in the Appalachian mobile belt?	
	a.	Caledonian	
	b.	Acadian	
	c.	Antler	
	d.	Ouachita	
	e.	Taconic	
ANSWER:			e
33. Which orogen Laurasia?		f the general worldwide tectonic activity that occurred when Gon	dwana united with
	a.	Antler	
	b.	Ouachita	
	C.	Taconic	
	d.	Cordilleran	
ANSWER:	e.	Alleghenian	b
anton Lit.			o o
-		e, the western margin of North America could be described as with the development of numerous mobile belts	<u>_</u> .
b. a passi	ve margin wi	ith only localized mountain building events	
c. a passi	ve margin wi	ith no evidence of orogeny	
d. an activ	ve margin wi	th thick carbonate platforms	
e. a zone	of active vol	canism	
ANSWER:			b
35. When did the margin?	Ouachita sys	tem change sedimentation styles from those typical of a passive	margin to an active
8	a. Late	e Paleozoic	
ŀ		ly Pennsylvanian	
C		e Permian	
C	d. late	Devonian	
6	e. Earl	ly Mississippian	
ANSWER:			e
26 The Out-out	n Dolto fami	ad in recognize to	
30. The Queenston	n Dena Iorm	ed in response to	

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a. the uplift of the Taconic	Highlands	
b. the subduction of the Iap	-	
c. the uplift of the Caledon		
d. carbonate deposition		
e. the Mississippi River		
ANSWER:		a
37. In southeast Missouri, dolostones provi	ide which mineral resource?	
a.	salts	
b.	uranium	
c.	lead	
d.	copper	
e.	oil	
ANSWER:		c
38. Most coal in Europe and North	America is bituminous.	
a. Permian		
b. Devonian		
c. Pennsylva	ınian	
d. Silurian		
e. Cambrian		
ANSWER:		c
39. The Zechstein deposits of Europe form	the caprock for large quantities of	
a. lim	ie	
b. gas	3	
	minum	
d. sili	ca	
e. iro	n	
ANSWER:		b
40. The Silurian Clinton Formation is an ir		
	asalt	
	and gas	
c. iron		
d. silic		
e. lime	;	
ANSWER:		c
41. During the Paleozoic, cratons were cov	vered with large bodies of water called	·
ANSWER:	epeiric seas	
42. At the beginning of the Paleozoic,	major continents were present.	

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ANSWER:		six 6
43. The supercontiner	nt that formed near the end of the Paleozoic from an asser	mbling of all the continents was called
ANSWER:	 Pangae	ea
44. Prior to the transg weathering and	ression of epeiric seas in the Middle Cambrian, the North	h American craton had been undergoing
ANSWER:	ero	osion
45. The boundary bet	ween the Tippecanoe Sequence and the overlying Kaskas	skia Sequence is marked by a major
ANSWER:	unconformity	
46. The most abundar <i>ANSWER:</i>	nt rock type deposited during the Kaskaskian sequence w carbonate	ras
47. The Antler orogen <i>ANSWER:</i>	ny that occurred in the Cordilleran mobile belt was caused subduction	d by
48. Erosion of the Tac Delta.	conic Highlands resulted in the development of a(n)	called the Queenston
ANSWER:	clastic wedge	
49. Thick deposits of <i>ANSWER:</i>	Silurian evaporites are important sources of various	salts
50. Most of the produ period.	active coal beds of Paleozoic age are found in rocks formed	ed during the
ANSWER:	Pennsylvanian	
51. What are mobile by <i>ANSWER:</i> Mobile by	pelts of a continent? pelts are elongated areas of mountain-building activity ale	ong the margins of the continent.
_	rian, where were the major continents located? ney were dispersed around the globe at low tropical latitude.	des.
	I to be the causes of global transgressive and regressive coses are largely thought to be due to changes in sea level re	•
	canoe sequence? pecanoe sequence is the transgressive-regressive sequence If the Kaskaskia sequence).	e that followed the Sauk sequence and
55. What are cyclothe	ems?	

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ANSWER: Cyclothems are rhythmically repeated alternating marine and nonmarine sedimentary strata.

56. Explain how extensive black shales such as those seen in the Middle Devonian across the United States might form.

ANSWER: The essential features required to produce extensive black shales include undisturbed anaerobic bottom water, a reduced supply of coarser detrital sediment, and high organic productivity in the overlying oxygenated waters. High productivity in the surface waters leads to a shower of organic material, which decomposes on the undisturbed seafloor and depletes the dissolved oxygen at the sediment—water interface.

57. Describe a clastic wedge. How can a clastic wedge be used as evidence for an orogeny?

ANSWER: A clastic wedge is an extensive accumulation of mostly detrital sediments deposited adjacent to an uplifted area. The wedge is thickest nearest the uplift and thins with distance from the uplift. These sediments eventually grade into carbonate cratonic facies. The existence of the wedge indicates that there was once a highland because of the thick sediments at one end and thinned sediments at the other. A highland indicates that there was once an orogeny.

58. What role did microplates and terranes play in the formation of Pangaea? Provide an example.

ANSWER: Numerous terranes or microplates of various sizes were involved in Paleozoic orogenic events. For example, the microcontinent of Avalonia separated from Gondwana in the Early Ordovician and existed as a separate continent until it collided with Baltica during the Late Ordovician-Early Silurian and then with Laurentia later in the Silurian. During the times when the microplates were separate from the larger continental masses they developed their own unique floral and faunal assemblages.