Test Bank for Earth System History 4th Edition by Stanley IBSN 9781429255264

Earth System History, 4th Edition, by Steven M. Stanley and John A. Luczaj

Test Bank, Chapter 02	Test	Bank,	Chapter	02
-----------------------	-------------	-------	---------	----

1.	Silicon has an atomic number of 14, meaning that all atoms of silicon have A) 14 nuclei. B) 14 neutrons. C) 14 protons. D) 14 electrons. Ans: C
2.	The radioactive isotope of carbon is A) carbon 15. B) carbon 14. C) carbon 13. D) carbon 12. Ans: B
3.	consist of a unique kind of atom. A) Chemical elements B) Atomic masses C) Molecules D) Chemical compounds Ans: A
4.	Ionic bonding occurs in A) seawater. B) halite. C) diamond. D) graphite. Ans: B
5.	precipitates directly from seawater as tiny needle-like crystals, which accumulate on the shallow sea floor as A) Calcite; calcite crystals B) Halite; evaporite minerals C) Aragonite; carbonate mud D) Calcite; coral skeletons Ans: C

6.	In some places, the strontium ion substitutes for the ion within the calcium carbonate crystal structure. A) sodium B) calcium C) chlorine D) carbon Ans: B
7.	In the atomic structure of diamond, each carbon atom is covalently bonded with other carbon atom(s) in the diamond structure shown. A) four B) three C) two D) one Ans: A
8.	The outermost shell of the chlorine atom, prior to bonding with sodium to form a common mineral (NaCl), contains how many electrons? A) 8 B) 7 C) 6 D) 5 Ans: B
9.	Minerals containing the complex ion SO ₄ ²⁻ are called A) sulfides. B) sulfates. C) oxides. D) silicates. Ans: B
10.	Of the major mineral groups, the one that is dominant in all igneous, sedimentary, and metamorphic rocks is called (A) sulfates. (B) carbonates. (C) silicates. (D) sulfides. (Ans: C

11.	there	mite resembles calcite in many ways, but in approximately half of the sites where could be calcium ions in dolomite's crystal structure, there is instead a(n) ion.
	A) B)	magnesium iron
	C)	strontium
	,	carbon
	Ans:	A
12.	Hema	atite is an example of the major mineral group called
	A)	sulfates.
	,	carbonates.
		silicates. oxides.
	Ans:	
13.		is a kind of igneous rock that is high in silica and contains two types of
	felds	
	A)	Granite Gabbro
	,	Felsic
		Basalt
	Ans:	A
14.	Coars	se grain size (or crystal size) is usually found in
	A)	flood basalts.
	B)	pillow lavas.
	C)	plutons.
	D)	tuffs.
	Ans:	
15.	Mud	is a mixture of
	A)	sand and silt.
	B)	silt and clay.
	C)	pebbles and sand.
	D)	pebbles and cobbles.
	Ans:	D

	 6. A sedimentary particle that is 1/128 millimeter in diameter is classified as A) clay. B) silt. C) sand. D) pebble. Ans: C
	 7. Of the siliciclastic rocks that have mainly sand-sized grains, the one with at least 25% percent feldspar sand grains is called A) arkose. B) breccia. C) graywacke. D) lithic sandstone. Ans: A
	 8. The main chemical process that occurs during lithification is called A) compaction. B) cementation. C) weathering. D) evaporation. Ans: B
	 9. Chert can form by biogenic processes (for example, as deposits from silica-rich solution moving through rock) or by the process of A) evaporation of seawater. B) direct precipitation from seawater. C) compaction and cementation. D) Native Americans making arrowheads. Ans: B
,	are sediments consisting of nearly spherical grains, which grow in modern seas by rolling around and accumulating aragonite needles on their surfaces. A) Oolites B) Ooids C) Cherts D) Coals Ans: A

21.	What sedimentary structure formed on a beach and is (are) produced by wave motion in water that oscillates back and forth? A) Cross-bedding B) Ripples C) Mudcracks D) Graded beds Ans: B
22.	The average direction of the slope of indicates the general direction of prevailing winds when ancient sands were deposited, thus forming a sand dune. A) mudcracks B) cross-bedding C) graded beds D) ripples Ans: B
23.	This sedimentary structure formed when sediments were exposed to air. A) Graded bed B) Mudcracks C) Cross-bedding D) Ripples Ans: B
24.	is the word used to indicate the levels of temperature and pressure of metamorphism. A) Thermometer B) Barometer C) Assemblage D) Grade Ans: D
25.	The mica-like, green mineral chlorite occurs primarily in A) schist. B) marble. C) gneiss. D) slate. Ans: A

Test Bank for Earth System History 4th Edition by Stanley IBSN 9781429255264

26.		form of metamorphism that is most closely associated with the heat or "baking" ing from an igneous intrusions is a fault-zone. regional. hydrothermal. contact. D
27.	When A)	an asteroid strikes the Earth, rocks that border the impact crater are affected by metamorphism.
	B)	shock
	C)	regional
	D)	fault-zone
	Ans:	В
28.		ype of metamorphism associated with the percolation of hot watery fluids through is called contact. hydrothermal. burial. shock. D
29.	Band A) B) C) D) Ans:	ed iron formations are complex rocks that consist of oxides, sulfides, or carbonates of iron interlayered with thin beds of chert. interlayered thin beds of calcite and aragonite, and beds of chert. interlayered beds of limestone and dolostone, and beds of chert. thin beds of chemical and biogenic sediments, which are interlayered with chert. A
30.	An ig A) B) C) D) Ans:	pumice. flood basalt. pillow basalt. tuff. C