## **G8 Science Homework (Chapter 10)**

Multiple Choice Identify the choice that best completes the statement or answers the question.			e statement or answers the question.
	1.	A is a scientist wh	no studies the classification and origin of all types of rocks.
		a. mineralogist	
		b. pedologist	
		c. petrologist	
		d. sedimentologist	
	2.	rocks are formed chemicals that precipitated.	from bits and pieces of eroded rocks and from dissolved
		a. Igneous	
		b. Sedimentary	
		c. Metamorphic	
		d. Petrolithic	
	3.	The individual rock particles, c texture are known as	rystals, and sometimes fossils that combine to give a rock its
		a. grains	
		b. nuggets	
		c. sediments	
		d. source rocks	
	4.	The grain size of glassy rocks	like obsidian is
		a. very large	
		b. medium sized	
		c. very small	
		d. nonexistent	
	5.	According to young-earth geole	ogists, the original igneous rocks
		a. formed around 4 billion year	ars ago
		b. were all created on Day 1 of	of Creation week
			re recent intrusive and extrusive volcanism
		d. were probably granite	
	6.	Many young-earth geologists t were probably	hink that the basement rocks created on the third day of Creation
		a. igneous rocks	
		b. metamorphic rocks	
		c. sedimentary rocks	
		d. both igneous and metamor	phic rocks
	7.	Which of these contains the la	rgest crystals, usually interlocking?
		a. pegmatite	

	<ul><li>b. phanerite</li><li>c. porphyry</li><li>d. pumice</li></ul>
	8 is a type of rock that is often light enough to float in water.
	<ul><li>a. Flint</li><li>b. Marble</li><li>c. Pumice</li><li>d. Sandstone</li></ul>
	9 is a type of rock that is so smooth and shiny that it is called <i>volcanic glass</i> .
	<ul><li>a. Andesite</li><li>b. Basalt</li><li>c. Obsidian</li><li>d. Schist</li></ul>
1	<ol> <li>The term describes rocks that have crystals so small that you can't see them with your eyes, and sometimes not even with a microscope.</li> </ol>
	<ul><li>a. aphanitic</li><li>b. phaneritic</li><li>c. porphyritic</li><li>d. pegmatitic</li></ul>
1	Sediments that could turn into sedimentary rocks someday are accumulating
	<ul><li>a. very rapidly</li><li>b. as fast as they appear to have in the past</li><li>c. relatively slowly</li><li>d. not at all today</li></ul>
1	2. Which type of rock is most closely tied to the process of erosion?
	<ul><li>a. igneous</li><li>b. metamorphic</li><li>c. sedimentary</li><li>d. none of these</li></ul>
1	3. Which of these steps would come between deposition and cementation in the formation of a sedimentary rock?
	<ul><li>a. compaction</li><li>b. erosion</li><li>c. precipitation</li><li>d. pumice</li></ul>
1	4. Which of the following does not belong with the other three?
	a. clay b. magma c. pebbles

 15.	Rocks formed strictly from minerals precipitated from water are
	<ul> <li>a. clastic sedimentary rocks</li> <li>b. hydrolithic rocks</li> <li>c. nonclastic sedimentary rocks</li> <li>d. precipital rocks</li> </ul>
 16.	The settling out of materials from a solution to form inorganic nonclastic rocks is called
	a. compaction b. precipitation c. cementation d. deposition
 17.	Each of the following are types of nonclastic sedimentary rock <i>except</i>
	<ul><li>a. halite</li><li>b. shale</li><li>c. chalk</li><li>d. limestone</li></ul>
 18.	Fossils are usually found in rock.
	<ul><li>a. hydrolithic</li><li>b. igneous</li><li>c. metamorphic</li><li>d. sedimentary</li></ul>
 19.	A sedimentologist would most likely be employed to
	<ul> <li>a. identify the composition of minerals</li> <li>b. study the effects of earthquakes on igneous bedrock</li> <li>c. certify that a site is geologically sound enough to support a tall building</li> <li>d. study the erosion of farmland</li> </ul>
 20.	Which kind of sedimentary rock is most useful as a construction material?
	<ul> <li>a. limestone</li> <li>b. chalk</li> <li>c. rock salt (halite)</li> <li>d. mudstone</li> </ul>
 21.	Which kind of rock used for building materials suffers the most damage from acid rain?
	<ul><li>a. granite</li><li>b. basalt</li><li>c. limestone</li><li>d. quartzite</li></ul>
 22.	When hydrothermal fluids cause changes to occur in rocks that they are in contact with, metamorphism has occurred.
	a. chemical

	<ul><li>b. hydrolithic</li><li>c. nonclastic</li><li>d. regional</li></ul>
23.	Rock containing grains that appear to be aligned in more or less parallel patterns has probably experienced metamorphism.
	<ul><li>a. regional</li><li>b. contact</li><li>c. dynamic</li><li>d. chemical</li></ul>
24.	Which of these shows a possible correctly ordered sequence of rocks changing from one type to another?
	<ul> <li>a. shale to schist to slate</li> <li>b. slate to schist to shale</li> <li>c. shale to slate to schist</li> <li>d. schist to slate to shale</li> </ul>
25.	Which of the following is a common example of a nonfoliated metamorphic rock?
	<ul><li>a. marble</li><li>b. slate</li><li>c. shale</li><li>d. schist</li></ul>
26.	High quality marble rock would most likely be used for
	<ul> <li>a. railroad track bedding</li> <li>b. veneer stone on large government buildings</li> <li>c. raw materials for integrated circuits (computer chips)</li> <li>d. home foundations</li> </ul>
27.	According to the rock cycle model, which of the following was the starting material in the cycle?
	<ul><li>a. igneous rock</li><li>b. molten magma</li><li>c. sediment</li><li>d. sedimentary rock</li></ul>
28.	In the old-earth version of the rock cycle, most rocks will eventually
	<ul> <li>a. become metamorphic</li> <li>b. be converted to energy</li> <li>c. return to the mantle and melt</li> <li>d. undergo chemical precipitation</li> </ul>
29.	The young-earth view of historical geology concludes that
	<ul> <li>a. only a tiny fraction of the secular rock cycle could have occurred since the beginning of the world</li> <li>b. the world was not designed to recycle rocks</li> <li>c. subduction of sedimentary rocks likely resulted from a brief but catastrophic period</li> </ul>

		in the earth's history d. all of the above are consistent with a young-earth view of geologic history.
	30.	The re-melting of sedimentary rocks in the crust can only be caused by
		<ul><li>a. subduction</li><li>b. extrusion</li><li>c. compaction</li><li>d. intrusion</li></ul>
True Indica		<b>e</b> Thether the statement is true or false.
	31.	The law of conservation of matter implies that the earth's matter can change in form but not in mass.
	32.	Most rocks are a mixture of two or more minerals.
	33.	Animals seek places under rocks for shelter, temperature control, and food.
	34.	Long, thin grains in a rock indicate that something abnormal happened to it during its existence.
	35.	Fossils are commonly found in granite.
	36.	An igneous rock with large, interlocking mineral grains is classified as a pegmatite.
	37.	Rhyolites and granites are chemically similar rocks.
	38.	Igneous rocks do <i>not</i> make the best building materials because they tend to dissolve in acid rain.
	39.	Old-earth geologists believe that it took millions of years for layers of sedimentary rocks to form
	40.	Cementation is what turns clastic sediments into sedimentary rock.
	41.	Shale is a sedimentary rock formed by the deposition of sediments with very large clast sizes.
	42.	Some limestones are considered to be inorganic nonclastic sedimentary rocks while others are organic nonclastic or clastic sedimentary rocks.

 43.	Chalk is an organic sedimentary rock; that is, it formed from the remains of living organisms.
 44.	Cement and concrete are composed mainly of igneous rocks.
45.	Some metamorphic rocks can be changed into other metamorphic rocks through metamorphism.
46.	If a geologist observes contact metamorphism in the rock below a horizontal stratum of igneous rock but not in the rock right above it, he can assume that he is looking at a surface lava flow rather than a sill intrusion.
 47.	A rock sample that has shiny, flaky outer layers or wavy bands of color through its interior is likely a foliated metamorphic rock.
 48.	Fossils are <i>never</i> preserved in metamorphic rocks because heat and pressure destroy them.
 49.	The traditional rock cycle fits better with an old-earth worldview than a young-earth view.
 50.	Sedimentary rocks are the starting material for most versions of the rock cycle.