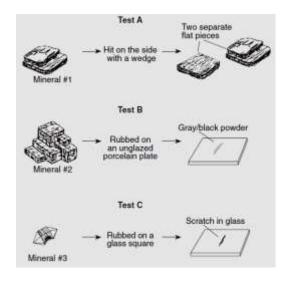
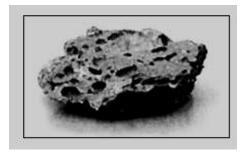
Rocks and Minerals Practice Exam

- 1. Which sequence correctly matches each test, *A*, *B*, and *C*, with the mineral property tested?
 - (1) A—cleavage; B—streak; C—hardness
 - (2) A—cleavage; B—hardness; C—streak
 - (3) A—streak; B—cleavage; C—hardness
 - (4) A—streak; B—hardness; C—cleavage



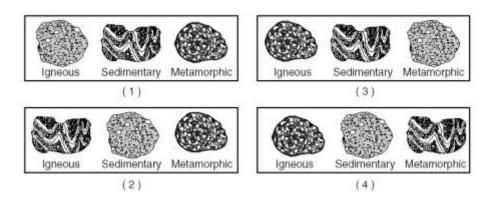
- 2. Which process most likely formed a layer of the sedimentary rock, gypsum?
 - (1) precipitation from seawater
 - (2) solidification of magma

- (3) folding of clay-sized particles
- (4) melting of sand-sized particles
- 3. The photograph shows an igneous rock with a vesicular texture. What is the origin and rate of formation of this rock?
 - (1) intrusive with slow cooling
 - (2) extrusive with rapid cooling
 - (3) extrusive with slow cooling
 - (4) intrusive with rapid cooling

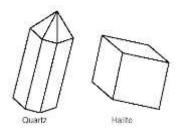


- 4. Which mineral has lead in its composition?
 - (1) hematite
 - (2) quartz

- (3) graphite
- (4) galena
- 5. In which set are the rock drawings labeled with their correct rock types?



- 6. The diagrams below show the crystal shapes of two minerals. Quartz and halite have different crystal shapes primarily because
 - (1) energy is released during crystallization
 - (2) of the internal arrangement of the atoms surfaces
 - (3) of impurities that produce surface variations
 - (4) light reflects from crystal



- 7. Which igneous rock has a vesicular texture and contains the minerals potassium feldspar and quartz?
 - (1) andesite

(3) pumice

(2) pegmatite

- (4) scoria
- 8. Dolostone is classified as which type of rock?
 - (1) chemically formed sedimentary rock
 - (2) land-derived sedimentary rock
 - (3) foliated metamorphic rock
 - (4) nonfoliated metamorphic rock
- 9. Which processes most likely formed the shale bedrock found near Ithaca, New York?
 - (1) burial and compaction

(3) heat and pressure

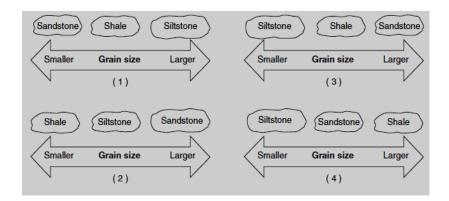
(2) uplift and solidification

- (4) melting and recrystallization
- 10. Which rock was organically formed from plant remains?
 - (1) rock gypsum

(3) coal

(2) breccia

- (4) phyllite
- 11. Wavy bands of light and dark minerals visible in gneiss bedrock probably formed from the
 - (1) cementing together of individual mineral grains
 - (2) heat and pressure during metamorphism
 - (3) cooling and crystallization of magma
 - (4) evaporation of an ancient ocean
- 12. Which diagram best shows the grain size of some common sedimentary rocks?



Base your answers to questions 13 through 15 on the drawings of six sedimentary rocks labeled

A through F.

				2			
	A Conglomerate	B Breccia	C Sandstone	D Shale	E Limestone	F Rock salt	
	The rocks shown were (1) melting and/or solid (2) volcanic eruptions	ification	ization		heat and pi compactior	ressure n and/or cer	mentation
14.	Which two rocks are co (1) rock salt and conglo (2) sandstone and lime	omerate	imarily of qu	(3)	oar, and cla rock salt ar sandstone	nd breccia	
15.	Rock salt is classified a (1) intrusive rock (2) clastic rock	as a(n)		(3) (4)	evaporite bioclastic r	rock	
16.	 The three statements below are observations of the same rock sample: The rock has intergrown crystals less than 1 millimeter in diameter. The minerals in the rock are gray feldspar, green olivine, green pyroxene, and black amphibole There are no visible gas pockets in the rock. 						
	This rock sample is mo (1) gabbro (2) basalt	ost likely		٠,	granite sandstone		
17.	Rocks are classified as (1) texture (2) crystal or grain size		edimentary,	(3)	orphic base method of t mineral cor	formation	on their
18.	When extreme heat an (1) granite (2) slate	d pressure	is added to	(3)			
19.	Which mineral has a m (1) pyroxene (2) galena	etallic luste	r, a black st	(3)	s an ore of i magnetite graphite	iron?	

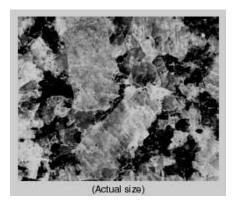
20.				• •
21.	What is the best way to distinguish between the sandstone, and shale? (1) composition (2) particle size	(3)	color	erived sedimentary rocks conglomerate,
22.	What is the best way to determine if a mineral sa (1) Observe the color of the mineral. (2) Place the mineral near a magnet. (3) Measure the mass of the mineral. (4) Place a drop of acid on the mineral.	imple is c	alcite or	quartz?
23.	As the rate of cooling increases, the crystal size (1) increases (2) decreases	of an ign		remains the same
24.	Which of the following lists features associated v (1) foliation, distortions, interlocking crystals (2) layering, cemented fragments, fossils (3) interlocking crystals, banding, gas pockets (4) cleavage, luster, streak	with sedir	nentary i	rocks?
25.	How can a person tell the difference between qu (1) quartz has fracture and potassium feldspar (2) quartz can scratch glass and potassium feld (3) quartz is always clear and potassium feldsp (4) quartz is metallic and potassium feldspar is	has cleav dspar can par is alwa	/age not scra ays pink	·
26.	A student finds a rock and identifies some of its	physical f	eatures:	
	Color: green-gray Texture: foliated Unique Feature: platy mica crystals visible			
	What is the name of the rock the student found? (1) gneiss (2) shale	(3)	biotite m	nica

27	Which elements would be found	in	olivine?
41.	MILICII EIEILIELIIS MOUID DE IOULID	1111	OIIVIIIE :

- (1) iron, magnesium, silicon, oxygen
- (2) sodium, aluminum, silicon, oxygen
- (3) potassium, aluminum, silicon, oxygen
- (4) calcium, iron, silicon, oxygen
- 28. The photograph shows the intergrown crystals of a pegmatite rock.

Which characteristic provides the best evidence that this pegmatite solidified deep underground?

- (1) low density
- (2) light color
- (3) felsic composition
- (4) very coarse texture



- 29. Which minerals could be used in the construction industry?
 - (1) dolomite, mica, gypsum, olivine
 - (2) talc, pyroxene, amphibole, garnet
 - (3) quartz, fluorite, sulfur,
 - (4) pyrite, graphite, amphibole, galena
- 30. A clastic sedimentary rock composed of grains that are .01 cm in diameter would be classified as
 - (1) sandstone

(3) conglomerate

(2) siltstone

(4) shale

- 31. Which rock is monomineralic?
 - (1) rock salt

(2) phyllite

- (3) breccia
- (4) diorite
- 32. If igneous rocks have pyroxene and olivine in their composition they are considered to be
 - (1) mafic and low in density

(3) mafic and high in density

(2) felsic and low in density

(4) felsic and high in density

- 33. Igneous rocks form as a result of
 - (1) extreme heat and pressure

(3) cementation of rock fragments

(2) evaporation of seawater

(4) cooling of lava