ENVIRONMENT&L GEOLOGY (GEOLOGY 102)

BY SHAAS N HAMDAN

TEST BANK



FIRSTEXAM

CHAPTER ONE

Shaas N Hamdan

Q1	: Fill in the space to complete the following sentences	Q3:	Answer the following questions briefly
1. 2.	Planets far from the sun contain minerals Modern environmental problems are	1.	Number of factors had combined to accelerate the rate of population in the present time, what are these factors
3.	is the all conditions that surrounding		
	an organism & influence it (physical & social conditions)		
4.	Stars formed from debris of the Big Bang, as high mass	2	N/
	of gasses collected by & becames dense	2.	We study environmental geology. why it's important?
_	enough to form stars		
Э.	Planets in the solar system formed about 4.5Ga the		
	remaining dust & gases have been condensed in the formation of that collided to form a planets	2	There are no fears of global food shortage even with
6.	The planetary density differences are due to	3.	high rates of population growth. Why?
0.	&		riigii rates or population growth. Why:
7.	The denser materials sink down & lighter floated up in a		
	process called		
8.	The & processes are leds to	4.	Main reasons for different growth rate among regions
	the formation of oceans & atmosphere		
9.	The O₂ added to the atmosphere by blue-green algae		
	called cyanobacteria by process		
10.	is the crust & uppermost mantle &	5.	The sources of pressure & temperature with depth are
	form a brittle shell around the earth		
11.	The water that released into the atmosphere by planets		
	are released in the process called	6.	The compositions of Earth interior are studied by
Ω2	: answer the following questions as True (T) or False (F)		
	Geology is the study of earth, & all of geology cannot		
	be regarded as environmental geology	7.	The geology has become more important in last severa
2.	Geophysics is the Geology that relates directly to human		tens of years. Why?
	activity (humans & environments interactions)		
3.	Geology is challenging because of the disparity between		
-	the scientist's laboratory & nature's		
4.		8.	The Big Bang are theory & not hypothesis why?
	dense atmosphere (CO ₂) that leds to greenhouse-effect		, ,, ,,
5.	Only lower mantle zone can be analyzed directly but		
	crust & uppermost mantle can not		
6.	The scientific method is not applicable to some geologic	9.	We search for explanations of phenomena. Why?
	process due to difficulty of experimenting with nature		
7.	As we consume more resources, we create less waste		
8.	The earth is not a dynamic system & many of the		
	processes on the earth are cyclic, & these processes &	10.	The time of the Big Bang (12-14Ga) are estimated by
	cycles are often interrelated		
9.	If the population grows too large, disease & competition		

for food will cut it back to sustainable levels

4. Population growth (G) C. Education,&Economic D. All of the drosely part	it for the difference in			
8. Large planets have less stable C. Metallic (M) elements are low 4. Which of the following are from pi A. Rock, Soil, Air, Water B. Othe C. Light, & Temperature D. All of B. Large standard elements in the crust are A. Depulation growth (G) 6. Planetismals 6. Planetismals 6. Planetismals 6. Planetismals 6. Competition for food any or unkey by C. Competition for food any or unkey by C. Competition for space may be	ses planets			
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11. What is the process that occurs in the core of a star, like the sun, that produces energy27. If the population is 8,792 people in population density in people per start				
the sun, that produces energy population density in people per s				
A. Fission B. Fusion A. 57,148 p/m² B. 208 p	•			
C. Decay D. Convection C. 1,353 p/m ² D. 135 p	• •			
12. One of the main differences between the outer and 28. If the growth rate 1.3%/yr calculates	_			
inner planets is A. 154 yr B. 54 yr				
A. The inner planets all have water C. 154%/yr D. 54%/	• •			
B. The inner planets are bigger than the outer planets 29. The doubling time of the present planets				
C. The outer planets are gas planets A. 58 yr B. 60 yr				
D. The outer planets have rings, & the inner don't C. 158 yr D. 160y	yr			

ANSWERS

Chapter One									
Question One (Q1									
1	Low Temperature Minerals								
	Is	the pr	oblems	that	are o	caused	d or i	ncreas	ed by
2	human activities such as Ground water Pollution,								
	Ac	id Rain	, O₃ De	pletio	n, Glo	bal W	armin	g	
3	Environment								
4	Gravity								
5	Planetismals								
6	Chemical Composition & Ore-forming Processes								
7	Differentiation								
8	Di	fferent	iation 8	& Cool	ing				
9	Ph	otosyn	thesis						
10	Lit	hosph	ere						
11	Εv	apotra	nspirat	ion					
		-	Qı	uestio	n Two	(Q2)			
1	L	2	3	4	5	6	7	8	9
F	F	F	Т	F	F	Т	F	F	Т
			Qu	estion	Thre	e (Q3)			
	1.	The h					e food	l are g	rown
1	 The human live not only where food are grown The human live not only where water available 								
	3. The human live not only where climate is ideal								
	1.	Curio	sity abo	out ho	w the	earth	work		
2	2.	•							
2	3.	•							
	4. To solving of environmental problems								
	لان الانسان يمتك تكنولوجيا قادرة على التغلب على مشكلة الغذاء								
	ل الهندسة الجينية Genetic Engineering التي تزيد من النبات ي يستهلكه الحيوان والبشر اضافة انه ممكن اكسابها صفات محببة								مثل الهنا
3									
	والتخلص من الصفات غبر المحببة وبالتالي يمكن توفير الغذاء								
	للجميع ويمكن التخلص من الفايروسات والبكتيريا الضارة وبالتالي ايضا التغاب على مشكلة الاوبئة								
			ملى التكاثر	:	أثقافات	۱ <u>دوب</u> ۱دران و ا	<u>ے مست</u> حض الا	هب طو اثقافات	الدين ما
	ى ا	ِ کسرة (د	سی ،ست. اقتصادیة	عىبى ھا تنمىة	ب ل التي ب	حيال و. ـــــــة: الدوا	بحص ، م لاقتصاد	التنمية ا	،-ین و، معدلات ا
	;	. ير ر. المستهلكة	ً س بالدول	ه 2 و العكس	ت يى . بها قلبلة	البشر ي	- ت النمو) معدلان	صناعبة
			ن . اخطار الذ						
4			ن حياة الذ						
									توفير الو
			واطنيها ب						
	هند	حدث بالـ	نسل کما						
	L.								حدث انف
			sion of			during	the f	ormat	ion of
5			& afte					_	
	Th 	e radio	active	decay	of ur	nstable	e elem	nents	within

the earth interior

ANSWERS

Chapter One

1. Analysis of meteorites

6

10

- 2. Analyses of dust in the solar system cloud
- 3. Geophysical studies that provide information about layers within the earth & their densities
- 1. Use of chemistry in study earth compositions
- 2. Use of biology to study ancient lifeforms
- 3. Use of physics to study behavior & proprietary
 - 4. Use of engineering to design safe structures
 - 5. The emphasize of why rather than just what

All assumptions have been verified by experiment

- 1. The T at the beginning must be very high
 - 2. The elements in the beginning must be H & He
 - 3. The rate of evelution of different type of stars
 - Knowledge, & The need for resources
- 9 2. Understand & solve of environmental problems
 - 3. Understanding of human impacts on nature
 - 1. The universe is expanding & cooling (red Shift)
 - 2. The astrophysical model of element distribution
 - The rate of evelution of different type of stars

Question Four (Q4)

Environmental Geology is the geology that relates directly to the human activities (human & nature interactions), & all geology might be regarded as environmental geology

- Is the limit to the life-sustaining resources earth can provide us, or capacity for human life on the earth (How many people can Earth support)
- Is the time required to double the size of population & inversely proportional to the growth rate
- Is the number of people added per unit of time due to changing of birthrates, emigration, & immigration

Dusts & Gases in the solar nebula collected together by gravity in the formation of bodies that called PLANETISMALS & these bodies then collected together & collides in the formation of rocky planets (terrestrial planets) in the solar system

Question Five (Q5)									
1	2	3	4	5	6	7	8	9	10
C	С	С	D	D	В	С	С	С	В
11	12	13	14	15	16	17	18	19	20
Α	С	Α	D	D	D	С	D	D	В
21	22	23	24	25	26	27	28	29	30
Δ	Δ			B			B	Δ	

SHAAS N HAMDAN

FIRST EXAM

CHAPTER TWO

Shaas N Hamdan

Q1	: Fill in the space to complete the following sentences	Q4:	: Ma	atch the following (I	Min	erals & Group respectively)
1.	Graphite differ from diamond by	1		Magnetite	Α	Carbonates
2.	are example of ferromagnesian mineral	2		Fluorite	В	Hydroxides
	The mineral that has a hardness of 6 is	3		Gibbsite	С	Halides
4.	example of nonfoliated metamorphic rock	4		Dolomite	D	Sulphates
5.	are the building blocks of rocks	5		Barite	Ε	Native Elements
6.	An aggregate of mineral and/or mineraloids matter is	6		Silver	F	Oxides
	best described by the term of	7		Graphite	G	Native Elements
7.	•	8		Corundum	Н	Oxides
8.	Elements can be organized into rows & groups, these	<u> </u>		1		
^	relationships are displayed as	Q5:	: Ma	atch the following (I	Resc	ource & Ore respectively)
9.	are the elements with same atomic number	1		Galena	A	Hg (mercury)
40	but different atomic mass	2		Hematite	Е	Fe (iron)
10.	The scale used by geologists to measure the hardness of	3		Cinnabar	C	Zn (zinc)
11	a mineral is called scale	4		Sphalerite	С	Pb (lead)
II.	Breakage along planes of weak bonding producing		•		•	<u> </u>
12	distinctive, smooth, flat surfaces is known as When isotopes are unstable they can spontaneously	Q6:	: Ma	atch the following (I	Rocl	ks & Means)
12.	disintegrate through a process called	1		Igneous rocks	Α	Accumulation & Settle
12	compares the weight of a mineral to the	2		Metamorphic rocks	s E	Hot & Fire
13.	weight of an equal volume of water	3		Sedimentary rocks	(Changing form
14.	The surface process that slowly disintegrates &	07	. Co	rrectly match the ig	neo	us rock pairs by composition
	decomposes rock is called	1		basalt		
15.	Compaction and cementation are two common steps or	2		Rhyolite	E	
4.0	processes of	3		Andesite	(
16.	Environmental conditions of heat & pressure are most			Alluesite		Diorite
	likely associated with process The alignment of mineral with a preferred orientation in a metamorphic rock that gives the rock a layered appearance is referred to as a texture The changes in T with depth is called			ve a scientific explai e magma & the lava		_
Q2	: Answer the following questions briefly During metamorphism, changes occur to rock include	2.		ny can two igneous r t different names?	ock	s have the same minerals
2. 9	Soils rich in clays are unstable base for building. Why?	3.		-		h surface solidified rabidly & ss. Why minerals not forms?
Q3 1.	: Defined briefly the following terms Mineral Rock	4.		e regional metamor kture in a rock from s		m are marked with foliation e to gneiss
۷.						

Q9: Answer the following with True (T) or False (F)

- 1. Stream deposits are poorly sorted by size & density
- 2. Sand common as major component of beach materials
- 3. In erosion, bays more active under attack than headland
- 4. Fine fragments maintain a steeper slope than coarser
- 5. Saturation of unconsolidated materials reduces the friction between particles
- 6. Reducing water infiltration will decrease flooding risk
- 7. Mud is common as major component of beach materials
- 8. The rocks in the oceanic lithosphere are rich in ferromagnesian minerals
- The obsidian are made of minerals & consists of impure masses of calcite
- 10. Ice in the Antarctica is a mineral
- 11. Rocks must contain minerals
- 12. Ions form when atoms gain or lose neutrons
- 13. Isotopes of same element have different mass numbers
- 14. All uncombined neutral atoms have the same number of neutrons as protons
- 15. An atom is the smallest neutral particle that retains the properties of a given element
- 16. Sodium (Na) & chlorine (CI) form an electrically neutral compound through the process of ionic bonding
- 17. Luster is the external expression of a mineral's internal orderly arrangement of atoms
- 18. Vitreous, pearly, and silky are types of metallic lusters
- 19. The exact chemical composition & the internal structure must be known to positively identify a mineral
- 20. Eight minerals make up 98% of the crust
- 21. Nonsilicates represent the largest group of minerals found in crustal rocks
- 22. The elements silicon and carbon comprise nearly threefourths of Earth's continental crust
- 23. Each silicate mineral group is associated with a particular silicate structure
- 24. Quartz has three planes of cleavage, one for each dimension of its silicate structure
- 25. The most useful properties of minerals is the color
- 26. Geologic processes directly related to rocks & minerals
- 27. Elements are substances that cannot be broken down into simpler substances by chemical or physical means
- 28. Each silicate mineral has a structure & composition that indicate the conditions under which it formed
- 29. The process called weathering, whereby magma cools, solidifies, and forms igneous rocks, may take place beneath the surface, or at the surface
- 30. The Rock Cycle involves only components of Geosphere
- 31. Over time, magma will crystallize to form extrusive rock
- 32. The most common extrusive igneous rock is granite
- 33. Igneous rocks are the rock most likely to contain fossils
- 34. Basalt exhibits a coarse-grained felsic materials
- 35. The size of mineral crystals in igneous rocks is greatly influenced by the rate of magma cooling
- 36. Magma is exactly the same as lava
- 37. Pore space in loose sediment is reduced over time through compaction & cementation
- 38. The sand-sized particles of red sandstone are most likely cemented with iron oxide
- 39. Bituminous coal is a chemical sedimentary rock
- 40. Detrital particles are predominantly quartz & feldspars

Q10: Choice the correct answer in the following sentences

- 1. The oldest seafloor rocks are about _____Ma
 - A. 500 B. 125 C. 200 D. 750
- 2. The oldest oceanic lithosphere is found in
 - A. Atlantic Ocean B. Red Sea
 - C. Pacifie Ocean D. Indian Ocean
- 3. Which mineral is not a silicates
 - A. Calcite B. Quartz
 C. Olivine D. Feldspar
- 4. The cation can bond chemically forming
 - A. An ionic bond B. A metallic bond
 - C. A covalent bond D. A shared oxygen linkage
- 5. Which of the following rock has a clastic texture
 - A. Gneiss B. Basalt
 C. Granite D. Siltstone
- 6. Examples of foliated metamorphic rocks are
 - A. Marble & Quartzite B. Shale & Andesite C. Limestone & Marble D. Slate & Schist
- 7. A coarse-grained clastic rock with fragments >2mm
 - A. Sandstone B. Shale
 - C. Rock salt D. Conglomerate
- 8. Which mineral is not a silicate
 - A. Dolomite B. Silver
 C. Olivine D. Feldspar
- 9. The discrimination of a crystalline substance is/are
 - A. Repetitive pattern
 C. Solid shapes
 B. Orderly manner
 D. All of them are true
- 10. The atomic number of Isotopes Carbon-12 is 6, so this carbon Isotopes contain
 - A. 6protons + 8electrons B. 6protons + 6neutrons
 - C. 6protons + 8neutrons D. 6protons + 6electrons
- 11. Two or more elements bond together in definite proportions to form a/an
 - A. Ion B. Nucleus C. Compound D. Rock
- 12. The property that is a measure of the resistance of a mineral to abrasion or scratching is
 - A. Fracture B. Cleavage C. Streak D. Hardness
- 13. Which of the following properties is the least reliable to help identify a mineral
 - A. Cleavage B. Color
 C. Streak D. Hardness
- 14. The hardest mineral substance is
 - A. Glass B. Diamond
 C. Rubies D. Corundum
- 15. Which type of material will effervesce (fizz) when in contact with acidic solutions (such as hydrochloric acid)
 - A. Diamonds B. Glass
 C. Silicates D. Carbonates
- 16. Which of the following is not a nonsilicate group?
 - A. Carbonates B. Sulfides
 - C. Native elements D. None of the above
- 17. Which of the following is the most abundant in crust
 - A. Nonsilicates
 C. Halides
 D. Carbonates
- 18. Which silicate group has a single-chain structure
- A. Quartz & Feldspars B. Amphiboles
 - C. Micas D. Pyroxenes

10 Miliah silipata graup has a shoot structure	20 Detrital codimentary reals can form from
19. Which silicate group has a sheet structure	38. Detrital sedimentary rocks can form from
A. Quartz & Feldspars B. Amphiboles	A. Organic material B. Detritus & sediment
C. Micas D. Pyroxenes	C. Weathered rock D. All of the above
20. Which silicate mineral has a single-tetrahedra structure	39. Particles transported short distances from source will be
A. Olivine B. Amphiboles	A. Round B. Angular
C. Micas D. Pyroxenes	C. Clay D. Smooth
21. Which silicate group has a double-chain structure	40. Which of the following is a chemical sedimentary rock
A. Olivine B. Amphiboles	A. Limestone B. Granite
C. Micas D. Pyroxenes	C. Sandstone D. Slate
22. Which silicate group has a 3D network structure	41. Detrital sedimentary rocks are subdivided according to
A. Quartz & Feldspars B. Amphiboles	A. Particle size B. Color
C. Micas D. Pyroxenes	C. age D. Hardness
23. The basic building block of the silicate minerals	42. Fossils found in sedimentary rocks can be used to
A. 10:4Si B. 1Si:4O	A. Fuels B. Age determination
C. 1Fe:40 D. Occurs independently	C. Resources D. All of them
24. Most silicate minerals form from	43. Which of the following is best considered a high-grade
A. Erosion B. Molten rock	regional metamorphic rock?
C. Radioactive decay D. Other minerals	A. Slate B. Gneiss
25. The composition of quartz is	C. Phyllite D. Marble
A. CaSO ₄ B. SiO ₂	44. Which of the following terms is not used as one of the
C. SiO ₄ D. CaCO3 ₃	four basic igneous rock textures?
	•
26. The cleavage of a silicate mineral is determined by	A. Coarse-grained B. Fine-grained
A. Composition B. Internal structure	C. Porphyritic D. Felsic
C. Crystal form D. Weathering rate	45 responsible for regional metamorphism
27. Which of the following is comprised of minerals	A. Confining Pressure B. Directed stress
A. Obsidian B. Limestone	C. Differential stress D. Non of the above
C. Pumice D. Coal	46. The most important agent of metamorphism is
28. The streak of metallic minerals tends to be	A. Texture B. Pressure
A. White B. Light	C. Heat D. Composition
C. Dark D. None of the above	47. When subjected to high pressure, shale will change to
29. Which of the following materials has a hardness of	A. Gneiss B. Sandstone
between 3 & 4	C. Limestone D. Marble
A. Fingernail B. Copper penny	48. Which of the following is least likely to form as a result
C. Wire nail D. Gypsum	of contact metamorphism
30. Silicate minerals tend to cleave	A. Quartzite B. Hornfels
A. Between Si-O bonds B. Randomly	C. Schist D. Marble
C. Across Si-O bonds D. Breaking the Si-O bond	49. The recrystallization of limestone during contact
31. Metamorphic rocks exposed at the surface will	metamorphism will form the metamorphic rock marble
31. Metamorphic rocks exposed at the surface will A Crystallize B Weather	metamorphism will form the metamorphic rock marble
A. Crystallize B. Weather	A. Gneiss B. Sandstone
A. Crystallize B. Weather C. Melt D. Lithify	A. Gneiss B. Sandstone C. Limestone D. Marble
A. Crystallize B. Weather C. Melt D. Lithify 32 processes produce sedimentary rocks	A. Gneiss B. Sandstone C. Limestone D. Marble 50. Which of the following is considered a non-foliated rock
A. Crystallize C. Melt D. Lithify 32 processes produce sedimentary rocks A. External B. Internal	A. Gneiss B. Sandstone C. Limestone D. Marble 50. Which of the following is considered a non-foliated rock A. Slate B. Marble
A. Crystallize B. Weather C. Melt D. Lithify 32 processes produce sedimentary rocks A. External B. Internal C. Heat (by decay) D. Metamorphic	A. Gneiss B. Sandstone C. Limestone D. Marble 50. Which of the following is considered a non-foliated rock A. Slate B. Marble C. Schist D. Gneiss
A. Crystallize C. Melt D. Lithify 32 processes produce sedimentary rocks A. External B. Internal C. Heat (by decay) D. Metamorphic 33. Sediments are best defined as	A. Gneiss B. Sandstone C. Limestone D. Marble 50. Which of the following is considered a non-foliated rock A. Slate B. Marble C. Schist D. Gneiss 51. The most characteristic feature of sedimentary rocks
A. Crystallize C. Melt D. Lithify 32 processes produce sedimentary rocks A. External B. Internal C. Heat (by decay) D. Metamorphic 33. Sediments are best defined as A. Loose material B. Cohesive material	A. Gneiss B. Sandstone C. Limestone D. Marble 50. Which of the following is considered a non-foliated rock A. Slate B. Marble C. Schist D. Gneiss 51. The most characteristic feature of sedimentary rocks A. Ripple marks B. Cleavage planes
A. Crystallize C. Melt D. Lithify 32 processes produce sedimentary rocks A. External C. Heat (by decay) D. Metamorphic 33. Sediments are best defined as A. Loose material C. A type of rock D. A type of crystallization	A. Gneiss B. Sandstone C. Limestone D. Marble 50. Which of the following is considered a non-foliated rock A. Slate B. Marble C. Schist D. Gneiss 51. The most characteristic feature of sedimentary rocks A. Ripple marks B. Cleavage planes C. Crystals D. Layering
A. Crystallize C. Melt D. Lithify 32 processes produce sedimentary rocks A. External B. Internal C. Heat (by decay) D. Metamorphic 33. Sediments are best defined as A. Loose material C. A type of rock D. A type of crystallization 34. Igneous rocks are classified by	A. Gneiss C. Limestone D. Marble So. Which of the following is considered a non-foliated rock A. Slate B. Marble C. Schist D. Gneiss Solution of the following is considered a non-foliated rock A. Slate B. Marble C. Schist D. Gneiss Leavage planes C. Crystals D. Layering Solution of very fine-grained
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A. Crystallize C. Melt D. Lithify 32 processes produce sedimentary rocks A. External C. Heat (by decay) D. Metamorphic 33. Sediments are best defined as A. Loose material C. A type of rock D. A type of crystallization 34. Igneous rocks are classified by A. Texture only B. Weather D. Lithify B. Internal D. Metamorphic B. Cohesive material C. A type of crystallization	A. Gneiss C. Limestone D. Marble So. Which of the following is considered a non-foliated rock A. Slate B. Marble C. Schist D. Gneiss Solution C. Schist D. Gneiss Leavage planes C. Crystals D. Layering Layering Solution Solution Solution Solution Solution D. Layering Solution Solution
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A. Crystallize C. Melt D. Lithify 32 processes produce sedimentary rocks A. External B. Internal C. Heat (by decay) D. Metamorphic 33. Sediments are best defined as A. Loose material C. A type of rock D. A type of crystallization 34. Igneous rocks are classified by A. Texture only C. Texture+Composition D. Texture+Crystal system 35. Which of the following is not a dark silicate mineral A. Pyroxene B. Potassium feldspar	A. Gneiss C. Limestone D. Marble So. Which of the following is considered a non-foliated rock A. Slate B. Marble C. Schist D. Gneiss Solution of the following is considered a non-foliated rock A. Slate B. Marble C. Schist D. Gneiss Leavage planes C. Crystals D. Layering Solution of very fine-grained sediment ("clay" sized) are called A. Sandstone B. Shale C. Siltstone D. Conglomerate Solution of the following is considered a non-foliated rock B. Shale C. Siltstone D. Conglomerate
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A. Crystallize C. Melt D. Lithify 32 processes produce sedimentary rocks A. External B. Internal C. Heat (by decay) D. Metamorphic 33. Sediments are best defined as A. Loose material C. A type of rock D. A type of crystallization 34. Igneous rocks are classified by A. Texture only C. Texture+Composition D. Texture+Crystal system 35. Which of the following is not a dark silicate mineral A. Pyroxene B. Potassium feldspar C. Olivine D. Amphibole 36. Igneous rocks that contain the last minerals to crystallize from magma & consist of feldspars & quartz	A. Gneiss C. Limestone D. Marble So. Which of the following is considered a non-foliated rock A. Slate B. Marble C. Schist D. Gneiss Soliate A. Ripple marks C. Crystals D. Layering Soliate up of very fine-grained sediment ("clay" sized) are called A. Sandstone B. Shale C. Siltstone D. Conglomerate Soliate minerals such as quartz & potassium feldspar are best described as A. Felsic B. Mafic C. Ultramafic D. Volcanic
A. Crystallize C. Melt D. Lithify 32 processes produce sedimentary rocks A. External B. Internal C. Heat (by decay) D. Metamorphic 33. Sediments are best defined as A. Loose material B. Cohesive material C. A type of rock D. A type of crystallization 34. Igneous rocks are classified by A. Texture only B. Mineral composition only C. Texture+Composition D. Texture+Crystal system 35. Which of the following is not a dark silicate mineral A. Pyroxene B. Potassium feldspar C. Olivine D. Amphibole 36. Igneous rocks that contain the last minerals to crystallize from magma & consist of feldspars & quartz are said to have a composition	A. Gneiss C. Limestone D. Marble D. Which of the following is considered a non-foliated rock A. Slate B. Marble C. Schist D. Gneiss D. Gneiss Leavage planes C. Crystals D. Layering C. Sedimentary rocks made up of very fine-grained sediment ("clay" sized) are called A. Sandstone B. Shale C. Siltstone D. Conglomerate Rocks with abundant light-colored silicate minerals such as quartz & potassium feldspar are best described as A. Felsic B. Mafic C. Ultramafic D. Volcanic C. Slow cooling of magma results in the formation of
A. Crystallize C. Melt D. Lithify 32 processes produce sedimentary rocks A. External B. Internal C. Heat (by decay) D. Metamorphic 33. Sediments are best defined as A. Loose material C. A type of rock D. A type of crystallization 34. Igneous rocks are classified by A. Texture only C. Texture+Composition B. Mineral composition only C. Texture+Composition D. Texture+Crystal system 35. Which of the following is not a dark silicate mineral A. Pyroxene B. Potassium feldspar C. Olivine D. Amphibole 36. Igneous rocks that contain the last minerals to crystallize from magma & consist of feldspars & quartz are said to have a composition A. Mafic B. Lithic	A. Gneiss C. Limestone D. Marble D. Which of the following is considered a non-foliated rock A. Slate B. Marble C. Schist D. Gneiss 1. The most characteristic feature of sedimentary rocks A. Ripple marks B. Cleavage planes C. Crystals D. Layering 2. Sedimentary rocks made up of very fine-grained sediment ("clay" sized) are called A. Sandstone B. Shale C. Siltstone D. Conglomerate 3. Rocks with abundant light-colored silicate minerals such as quartz & potassium feldspar are best described as A. Felsic B. Mafic C. Ultramafic D. Volcanic 4. Slow cooling of magma results in the formation of A. Aphanitic crystals B. Phenertic crystals
A. Crystallize C. Melt D. Lithify 32 processes produce sedimentary rocks A. External B. Internal C. Heat (by decay) D. Metamorphic 33. Sediments are best defined as A. Loose material C. A type of rock D. A type of crystallization 34. Igneous rocks are classified by A. Texture only C. Texture+Composition D. Texture+Crystal system 35. Which of the following is not a dark silicate mineral A. Pyroxene B. Potassium feldspar C. Olivine D. Amphibole 36. Igneous rocks that contain the last minerals to crystallize from magma & consist of feldspars & quartz are said to have a composition A. Mafic B. Lithic C. Felsic D. Gneissic	A. Gneiss C. Limestone D. Marble D. Which of the following is considered a non-foliated rock A. Slate B. Marble C. Schist D. Gneiss D. Gneiss Leavage planes C. Crystals D. Layering C. Sedimentary rocks made up of very fine-grained sediment ("clay" sized) are called A. Sandstone B. Shale C. Siltstone D. Conglomerate S. Rocks with abundant light-colored silicate minerals such as quartz & potassium feldspar are best described as A. Felsic B. Mafic C. Ultramafic D. Volcanic S. Slow cooling of magma results in the formation of A. Aphanitic crystals C. Porphyritic crystals D. All of the above
A. Crystallize C. Melt D. Lithify 32 processes produce sedimentary rocks A. External C. Heat (by decay) D. Metamorphic 33. Sediments are best defined as A. Loose material C. A type of rock D. A type of crystallization 34. Igneous rocks are classified by A. Texture only C. Texture+Composition D. Texture+Crystal system 35. Which of the following is not a dark silicate mineral A. Pyroxene B. Potassium feldspar C. Olivine D. Amphibole 36. Igneous rocks that contain the last minerals to crystallize from magma & consist of feldspars & quartz are said to have a composition A. Mafic B. Lithic C. Felsic D. Gneissic 37. one of the following is not a primary element in magma	A. Gneiss C. Limestone D. Marble D. Which of the following is considered a non-foliated rock A. Slate B. Marble C. Schist D. Gneiss 51. The most characteristic feature of sedimentary rocks A. Ripple marks B. Cleavage planes C. Crystals D. Layering 52. Sedimentary rocks made up of very fine-grained sediment ("clay" sized) are called A. Sandstone B. Shale C. Siltstone D. Conglomerate 53. Rocks with abundant light-colored silicate minerals such as quartz & potassium feldspar are best described as A. Felsic B. Mafic C. Ultramafic D. Volcanic 54. Slow cooling of magma results in the formation of A. Aphanitic crystals B. Phenertic crystals C. Porphyritic crystals D. All of the above
A. Crystallize C. Melt D. Lithify 32 processes produce sedimentary rocks A. External B. Internal C. Heat (by decay) D. Metamorphic 33. Sediments are best defined as A. Loose material C. A type of rock D. A type of crystallization 34. Igneous rocks are classified by A. Texture only C. Texture+Composition D. Texture+Crystal system 35. Which of the following is not a dark silicate mineral A. Pyroxene B. Potassium feldspar C. Olivine D. Amphibole 36. Igneous rocks that contain the last minerals to crystallize from magma & consist of feldspars & quartz are said to have a composition A. Mafic B. Lithic C. Felsic D. Gneissic	A. Gneiss C. Limestone D. Marble D. Which of the following is considered a non-foliated rock A. Slate B. Marble C. Schist D. Gneiss D. Gneiss Leavage planes C. Crystals D. Layering C. Sedimentary rocks made up of very fine-grained sediment ("clay" sized) are called A. Sandstone B. Shale C. Siltstone D. Conglomerate S. Rocks with abundant light-colored silicate minerals such as quartz & potassium feldspar are best described as A. Felsic B. Mafic C. Ultramafic D. Volcanic S. Slow cooling of magma results in the formation of A. Aphanitic crystals C. Porphyritic crystals D. All of the above

ANSWERS

Chapter Tow										
Question One (Q1)										
1	Crystal	struc	ture							
2	Olivine,	Pyrc	xene							
3	Orthock	ase								
4	Quartzi	te, M	arble.							
5	Mineral	S								
6	Rocks									
7	Calcite									
8	Periodic Table									
9	Isotopes									
10	Moh's S	cale								
11	Cleavag	е								
12	Radioac	tive	Decay							
13	Specific	Grav	/ity							
14	Weathe	ring								
15	Lithifica	tion								
16	Metamo	orphi	sem							
17	Foliation									
18	Geothermal Gradient									
	Question Two (Q2)									
	Changin	_	-		-		_	-	_	
1	Changing the texture if the rocks (may be foliated)									
	New minerals will recrystallized from older once									
	The clay structure consists of space filled with water									
	The clay structure consists of space filled with water									
2	& this structure make from these minerals less resistant to slope & low stability									
	resistan	t to s								
	Natural	1		tion T					4 - III	
4	Natural	-	_		_			-		
1	structur				iea (nem	icai c	ompos	ition &	
2	physical				. wala	<u> </u>	inara	1 1:1:0		
2	Solid ag	greg					mera	i-iike		
Question Four (Q4) 1 2 3 4 5 6 7 8										
_	H C		В	A	D		E, G	E, G	F, H	
Question Five (Q5)									-,	
1 2 3 4										
D B A C										
				stion						
	1 2 3									
			В	С		Α				

ANSWERS

Chapter Tow Question Seven (Q7) 1 2 B (Mafic) A (Felsic) C (Intermediate) **Question Eight (Q8)** The magma is the molten materials within the earth has high viscosity that prevents it from rise to the surface (due to silica contents) & crystallize within the earth at a slow rate to produce plutonic rocks The lava is the molten materials that reaches the surface & crystallized rabidly at earth's surface to produce volcanic rocks or may be solidified (instantly cooling) to produce volcanic glass Igneous rock described in term of composition & structure, so tow igneous rocks (such as granite & rhyolite) have same chemical composition but different crystals due to position of crystallization Because solidified instantly, there's no enough time for ions to arranged in regular patterns Due to sheet silica that arranged parallel to the stress direction & this arrangement will produce the foliation texture (foliation of sheet micas) Question Nine (Q9) 1 2 3 4 6 7 8 10 Т Т Т Т Т Т 11 13 14 15 16 **17** 18 20 F Т F Т Т Т F F F 22 23 24 25 26 27 28 30 21 F Т Т Т F 32 33 34 35 36 38 40 F F Т Τ Τ F Question Ten (Q10) 2 3 5 6 7 8 9 10 11 1 CA D D D D В C 13 14 15 16 **17** 18 19 21 12 20 22 D В В D В D C Α В Α 23 24 25 26 27 28 29 30 31 32 33 C В В В В В В C В Α Α

SHAAS N HAMDAN

34

C

45

35

В

46

36

C

47

37

D

48

38

D

49

39

В

50

В

40

Α

51

D

41

Α

52

42

D

53

Α

43

В

54

44

D

55