



Engineering Geology - Mid Term Exam, Date: Tuesday 8th Nov. 2015

Name of the Student [please in Arabic]: O
Instructors (Eng. Saheem Murshid)
Dr. Taleb Al Harithi Section: (1 , 2 , 3 , 4)
Question #1 / Fill the spaces: (30 Marks)
1- potholes are circular holes in the floor of the stream channel formed by
abrasion effect.
2 F conomic Geology is a branch of geological sciences that studies
valuable earth geo-resources.
3- Asthenosphere is the most upper & elastic layer of the Earths' mantle that
is located at the depths between 100-700kms.
4- Example of constructional Earth activities that lead to the creation/addition of new
matter to the Earths' crust is: VolCanism
5- Gradual cooling of magma deep under Earths' surface gives rise to the formation of
rocks known as inhitisive igneous rocks with Conrect Glain texture. Calcife with form sign (mineral element Ca) 6- is an example of a mineral composed of 1 (one) element.
7- or tho class is the mineral which hardness equals 6.
8- Talc is the mineral which has a soapy touch and used abundantly in
many cosmetic industries.
9- Bauxit 501 is the type of soil rich in Aluminum oxides and considered as
ore for AL

10- The last to crystallize from the Earths' melt [magma/lava] is
- 94artz
11- Accumulation of fines in the soil horizon (B) forming a dense impermeable layer
called hard layer.
13 - 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
13- This rock notification refers to the rock called
14- Most of the houses in Palestine are made up of local rock named lime store
15- Bed load of rocks and minerals fragments is carried by the stream current in 3
ways; they are, a: rolling b: Sliding
c: <u>solifliction</u>
16- The upper limit (surface) of the saturated zone is known as water table
17- Impermeable rocky layer is known as 9 quelude ; one example is the
rock type <u>Shale</u>
18- Environmental problems associated with groundwater are many, name 3 of
18- Environmental problems associated with groundwater are many, name 3 of them: a. ground water is unfeaningle ground supsedance
c. <u>salt water</u> contamination
19- The most important Earths' wearing agent is
- 20- The abbreviation (ppm) to measure water quality means
21- When water table cuts topography we have
22- The river discharge is measured as follows: Cross Area(m²)x velocits (m/s) of the sive
23- When the water table is higher than the water level in the stream, the stream is
called <u>efflent</u> *24- The rise in the groundwater level in a dug well is called <u>flow well</u>
*24- The rise in the groundwater level in a dug well is called + 1000 WEII

15.Granite	14.Quartzite	13.Ollvine	12.Basalt	11.Andesite	10.Coquina	salt beds	8.Quartz	7.Graywack	6.Gabbro	5.Schist	4.Breccia	(هوابط)	3.Stalactite	2.Biotite	1.Gneiss	Mineral	Rock or
	-	7						1								Single	
ju.													7			Single Tetrah- edron	MINERAL STRUCTURE
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_	+	-				7						7	,			inorg	ARY

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Question (3) Mach between those in column (1) with those in	column (2) in the table below COLUMN (2)								
Mach between those in column (1) with the	COLOMIC 1-7								
COLUMN (1)	(4) Corundum (15)								
1- Finest detrital rock	(4) Gypsum								
2. Weathered rock and mineral fragments	tee								
3. Found hanged in underground caves' ceilings									
4. Evaporate mineral	(II) Pyrociastic								
5. Gives granite its rose color	(6) Quartz								
6. Made up totally of SiO2	(g) Gold								
7. Metamorphism around the volcano neck	(9) Fossil								
8. Found as placer deposit	(3) Stalactite								
9. Any indicator for prehistoric life	(5) Orthoclase *								
	(2) Regolith								
10. Light coarse sandstone	(1°) Arkose								
11. Lava mixed with rock fragments	(14) Diorite *								
12. Inclination of strata in sedimentary rock									
13. Rock formed due to high grade	(1) Clay								
metamorphism	(7) Contact								
14. Coarse grained igneous rock									
15. Has a hardness "9"	(12) Dip								

a) Explain how dolomite is formed?

الدوله مات وحد كالبوم و مفيسرم ، ويور المفسوم بالرب الموسوم بالرب المفسوم بالرب المفسوم الموسوم بالرب الموسوم بالرب الموسوم المعالم الموسوم بالمرب و المال المعالم ال

b) Explain how piles can be used to control mass wasting?

لع استعدام الخازيم عنى تهل ال المحدد الطبة المفلكة او العدم فعل على دعم أكبر صد الطبة للفلكة او العدم فعل المفلك الد تنزلت لابه المفلك عائم مينعها صد البزول الحاء السفل ومالماني نقل مد والماده در در المعدد المعد

c) Explain how the alluvial fans are formed in nature?

Channalized flow معم الما على على على الحاء الماء ا

التار المله بعل قط مختلف الاصحام و يعلما بناء على التار مهم و عنما و معامل الماء و عنما و معامل و معامل و عنما و معامل و عنما المعامل الى تعبح عرب المعامل الى تعبح عرب قادر على المعامل و حكنا و به نوع المعلم و حكنا و به نوع العمام و المعامل و حكنا و المعامل و المعا