## ENCE231: Engineering Geology (Section 3)

Quiz 2 (Chapter 2: Minerals)
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A rock composed of more than one mineral is: [0.5 point]     a) Monomineralic
2. Choose the type of chemical bonding that forms the mineral halite (commonly known as salt): [0.5 p]
(a) lonic bonding b) covalent bonding c) hydrogen bonding
3. Cleavage is one of the physical properties used to identify minerals. Thoroughly describe Cleavage. [2 points]
cleanage: is the tendery of a minerals to break along it plane of
weaks bonding who - to to these in I a
Lathriff fly it's sonoth surface (Exto 2 plane at do
1 The marchess of Orthociase Feldspar is 0 [0.5 point] 2 Plane at 60 and 120 0
5. What are the two most common mineral-forming elements? [1 point] Plane of and some mineral don't have cleavage.
6. Name the five Structures of Silicate Mineral resulting from the way silicon-oxygen tetrahedra bond:
[2.5 points] D single tehakedron @ single chain 3 dauble chain 2
4) sheet 4 3-D network
7. Describe thoroughly all the chemical and physical properties of the silicate mineral Augite (Pyroxene  Group): [2 points] * A wint contact the silicate mineral Augite (Pyroxene ).
Group): [2 points] * Ageint cleavage > two plane at 90°.
O! Si found in fazelt (extrussie ignus lock)  8.3 According to Bowen's Reaction Series, what is the first mineral to crystallize as a Magma cools:
[1 point] olipine
Bonus: Which one of the two major silicate mineral groups has a higher content of Silica and the least content of Iron & Magnesium? [1 point]
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quante \_ light mineral inlicates

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