

ENCE231: Engineering Geology (Section 3)

Quiz 3 (Chapter 3 &5: Igneous Rocks & Weathering)
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1) When magma crystallizes at depth, the rocks formed are referred to as "intrusive" or Pultonic [0.5 points] 2) Describe what <u>Texture</u> is in Igneous Rocks. [2 points]
Texture: is have such a b in a such is a
3) Name 3 of the 6 textures of Igneous Rocks &indicate the grain size where applicable. [3 point] Minerals
aphenite - mall (fine) grain, Phaneitic -> larget (2010)
4) Extremely fast cooling of magma ("quenching") forms Igneous rocks with which texture. [1 point] gland texture
5) Igneous rocks are classified on the basis of their chemical composition. Name these 4 compositions & indicate the silica content in each. [2.5 points]
Don't el Contin deschile
6) Describe the texture, mineral composition & compositional category of Basalt. [1.5 points]
gapenine lecture 12) very darch green flack 2) Oct in a 6 6 mili
7) How can you visually distinguish Granite from Rhyolite? [1 point] Religion and some of olymeus aphares
revel its (5) major constituent of ocen,
8) Name any 4 mechanical properties/ parameters used to evaluate the engineering properties of a rock. [2 points]
1) tomi speed 2) companiestrength 3) tensile strength 4) specific grapity.
9) Briefly describe the difference between Mechanical & Chemical Weathering. Also name 1 example for each one. [2]
mechanical - physical borce breaks were into smaller and smaller marker thout
hemid and as Charge in Composition. Mich as frost weddyng
when dellerent sails classified and so expensed a weather it is the
11) Name one of the many controls of soil formation. [0.5 point]
12) Engineers & Engineering Geologists use the USCS & AASHTO soil classification systems. What is the basis of these
systems? [0.5 points] a) Texture b) soil grain size c) soil composition
13) Name 3 of the soil horizons and briefly give the content its content. [2.5 points]
O-harizon large % of organic muterial and it's fill with mirrorganism
A - harizon - lingle % of imargini material land it; have high for
A - harizon - large % of imargaic material land it; have high for