

1. Underline the correct answer(s) (3pts)

- Granite is composed of :

Feldspar (0.5), Galena, Quartz (0.5), Calcite, Orthose (0.5), Micas (0.5), Grenat, Gyps.

- Sandstone is a rock : Exogenous (0.5), Chemical, Detrital (0.5).

2. What are the most abundant chemical elements in the Earth's crust ? (2pts)

Oxygen (O₂) (1pt) and **silicon (Si)** (1pt).

3. What type of magmatic rock has a grain texture ? (2pts)

Plutonic magmatic rock (Intrusive).

4. What's the difference between acid magma (granitic) and basic magma (basaltic) ? (3pts)

Viscosity (1pt), **silica content** (1pt) and **mineralogical composition** (1pt).

5. What is the lower temperature limit of metamorphism? (1pt) **200°C**

6. Name two factors in external geodynamics (3pts)

Water (1.5pt) and **wind** (1.5pt)

7. Name the mineral derived from the alteration of Biotite (1pt) **Smectite or vermiculite**

8. Stratigraphy and paleontology can be used to determine the age of a rock. Is this age relative or absolute (2pts) **Relative**

9. In stratigraphy, explain the principle of continuity (3pts)

The "Principle of Continuity" : allows us to consider, despite outcrop discontinuities, that two layers separated in space but bounded by the same layers at the base and top, are of the same age.

