

**FINAL EXAM:**  
**Geology (S4) : UED 2.2**

**Q1** / (07 pts) :

A mineral is a normally inorganic, more rarely organic, substance, formed naturally or synthesized artificially, defined by its chemical composition and the arrangement of its atoms according to a precise periodicity and symmetry which are reflected in the space group and in the crystal system of the mineral.

1- What are the most important minerals

Silicates form the most important group of minerals, the fundamental structural element of silicates, the tetrahedron; these tetrahedra can be isolated or united in varied assemblages.

2- Give the name, the arrangement of the tetrahedra and the writing of the silicate part in the chemical formula of the minerals belonging to each of these classes.

3- **Q2** / (03 pts) :

4- What are the modes of occurrence and the textures of igneous rocks?

| modes of occurrence | Texture |
|---------------------|---------|
|                     |         |
|                     |         |
|                     |         |

5-

**Q3** / (03 pts) :

Show in a table the different age of the first and second geological era.

*Good luck*