

***Question type of Practical Mineralogy***

Q1- For this mineral write:

Class:

Subclass:

Q2- In this mineral write:

Name:

Crystal system

Q3- For this mineral write:

Color:

Transparency:

Q4- Write name of this mineral:

Q5- What is the hardness number of this mineral on Mohs scale?

Q6- For this mineral write the type of fracture:

Q7- For this mineral write the type of Cleavage:

Q8- What type of silicate structure (Subclass) you expect for this mineral?

Q9- If you know that this mineral is .....; write down their group?

Q10- Answer the requirements:

Mineral transparency:

Luster:

Q11- Write the chemical composition for this mineral

Q12- For this mineral write:

Name:

Subclass:

Q13- For this sample write:

Name:

Crystal system:

Q14- If you know this mineral is (.....) write:

Subclass:

Series:

Q15- In this mineral determines:

Mineral Color's:

Mineral transparency:

Q16- This mineral belong to ..... class; which subclass you expect for it?

Q17- What type of cleavage present in this mineral?

Q18- What kind of fracture appears in this mineral?

Q19- If you know that this mineral is (.....) write the chemical composition of it?

Q20- Draw the silicate structure of two different subclasses of silicate class, and then determine number of silicon and oxygens?

Q21- Write three minerals belonged to tectosilicate subclass:

Q22- Write three minerals belonged to pyroxene group:

Q23- Write formula of these minerals:

Q24- Write groups of these minerals:

Q25- Determine chemical formula for Olivine mineral, if you know that number of oxygen is equal to 4.

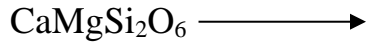
Oxides	Wt. %	Mol. Wt.
SiO <sub>2</sub>	41.08	60.086
FeO	8.60	71.845
MnO	0.20	70.938
MgO	50.12	40.305

Q26- Calculate the percentage composition by weight, in term of constituent oxides, of the Olivine mineral Mg<sub>2</sub>SiO<sub>4</sub>.

Note: Atomic weight of Si= 28; Mg= 24.3; O=16

Q27- Answer the following questions:

1. Elements that existing in light color minerals
2. Give example of Elemental mineral
3. Proportion of major element in the minerals
4. Break the mineral formula ( $\text{CaMgSi}_2\text{O}_6$ ) to balanced cation oxide



5. Mention two habit of mineral growing

Q28- Give example for the following diagram



Q29- Give example for Isomorph group of minerals

Q30- Mention three properties of ..... subclass