

Doon Public School

A Senior Secondary School
Sector- 21, Panchkula. Ph: 0172- 2590514

Assignment – 4

Subject: Science(Chemistry)

Class:IX

Date: 29-08-2018

1. How many molecules are their present in one mole of ozone?
2. Calculate the number of molecules of SO_2 present in 44 g of it.
3. Calculate the number of atoms of hydrogen present in one dozen molecules of hydrogen gas.
Calculate the given number of hydrogen in terms of number of moles.
4. Find the mass of the following:
a)1 mole of glucose b)1 mole of $\text{C}_2\text{H}_5\text{OH}$
5. Which has more no of atoms?10g of N_2 or 10g of NH_3 .
6. Calculate the ratio between the mass of one atom of hydrogen and mass of one atom of silver.
7. Calculate the mass percent of each element present in the molecule of Calcium carbonate.
8. A sample of vitamin C is known to contain 2.58×10^{24} oxygen atoms. How many moles of oxygen atoms are present in the sample?
9. Explain the laws of Chemical combination.
10. Define :Atomic mass , Molecular mass and Avogadro's number.