

26/11/2020  
THURSDAY

## CHEMISTRY

STD - XI  
class - 03

### Assignment

1. NO and NO<sub>2</sub> are two oxides of Nitrogen.

I) Which Law of chemical combination is illustrated by these compounds?

II) State the law.

Ans. I) Law of Multiple Proportion (John Dalton)

II) If two elements can combine to form more than one compound, the masses of one element that combines with a fixed mass of the other element are in the ratio of small whole numbers.

The weights of oxygen that combine with the same weight of Nitrogen (14g) are in the simple ratio  $16 : 32 = 1 : 2$

2. A Given compound always contains exactly the same proportion of elements by weight.

I) Name the above law.

II) Write the name of the scientist who proposed this law.

Ans. I) Law of Definite Proportion

II) Joseph Proust