

9/7/2020  
THURSDAY

## CHEMISTRY

STD - 8  
class - 08

### Assignment

- Calculate the number of atoms present in each of the sample? [Atomic mass, N = 14, O = 16]

1. 42 g Nitrogen

2. 80 g Oxygen

Ans) 1) 42 g Nitrogen

$$\text{No. of atoms} = \frac{\text{Given mass in grams}}{\text{Atomic mass}}$$

$$= \frac{42}{14}$$

$$= \underline{\underline{3 \text{ GIM}}}$$

$$\therefore \text{No. of atoms} = \underline{\underline{3 \times 6.022 \times 10^{23} \text{ atoms}}}$$

2) 80 g Oxygen

$$\text{No. of atoms} = \frac{\text{Given mass in grams}}{\text{Atomic mass}}$$

$$= \frac{80}{16}$$

$$= 5 \text{ GIM}$$

$$\therefore \text{No. of atoms} = \underline{\underline{5 \times 6.022 \times 10^{23} \text{ atoms}}}$$