

Home assignment

Q1 Calculate the molecular mass of  $\text{Na}_2\text{SO}_4$

ANS)  $142.04 \text{ g/mol}$

Q2 Calculate the number of moles present in 20 gram of calcium in a sample?

ANS)  $\text{CaCO}_3$   
atomic mass =  $40 + 12 + 3 \times 16 = 100$

$$= \frac{20}{100} = 0.2 \text{ moles}$$

Q3 Write the chemical formula of the following

a) ~~calcium~~ calcium nitride :-  $\text{Ca}(\text{NO}_3)_2$

b) magnesium bicarbonate :-  $(\text{MgCl}_2)$